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Anti-Vimentin Rabbit Monoclonal Antibody

Catalog Number: M00235-1

Overview

Product Name	Anti-Vimentin Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Vimentin Rabbit Monoclonal Antibody catalog # M00235-1. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal AGF-22
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P08670

Technical Details

Immunogen	A synthesized peptide derived from human Vimentin
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200 FC 1:50

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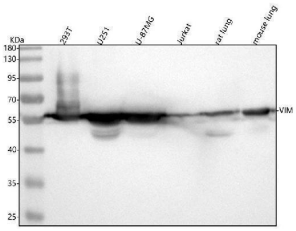
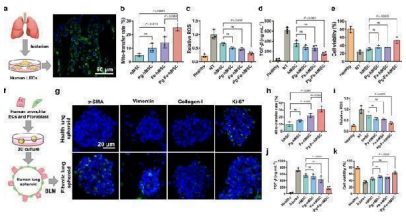
Anti-Vimentin Rabbit Monoclonal Antibody (M00235-1) Images



Western blot analysis of Vimentin using anti-Vimentin antibody (M00235-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human U-87MG whole cell lysates, Lane 4: human Jurkat whole cell lysates, Lane 5: rat lung tissue lysates, Lane 6: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Vimentin antigen affinity purified monoclonal antibody (Catalog # M00235-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Vimentin at approximately 54 kDa. The expected band size for Vimentin is at 54 kDa.



Therapeutic potentials of Pg-Fe-hMSC in both monocellular and multicellular humanized fibrotic models. a Schematic illustration and representative image of EpCAM immunostaining in primary human lung epithelial cells (hLECs). Scale bar, 50 um. b Mitochondrial transfer rates from the indicated hMSC to the primary hLEC (n = 3 biologically independent cells). c Relative intracellular ROS levels (n = 3 biologically independent cells), d TGF- beta expression levels (n = 4 biologically independent cells), and e Viability of BLM-treated hLEC after the indicated treatment using different engineered hMSCs (n = 3 biologically independent cells). f Schematic illustration showing the preparation of the 3D multicellular human fibrotic model. g Representative immunostaining images showing the expression of alpha -smooth muscle actin (alpha -SMA), vimentin, collagen-I, and Ki-67 in the healthy and fibrotic multicellular human spheroid models. Blue fluorescent signals indicate the cell nuclei and green signals indicate the biomarkers. Scale bar, 20 um. h Mitochondrial transfer rates of different engineered hMSC in fibrotic human lung spheroids (n = 3 biologically independent experiments). i Relative intracellular ROS levels (n = 3 biologically independent experiments) and j TGF- beta expression levels of fibrotic human lung spheroids after the indicated treatment using different engineered hMSCs (n = 4 biologically independent experiments). k Viability of fibrotic human lung spheroids after the indicated treatment using different engineered hMSCs (n = 3 biologically independent experiments). Data are presented as means ± SD. Statistical significance was analyzed using ordinary one-way ANOVA. ECs epithelial cells. Index in PubMed under a CC BY

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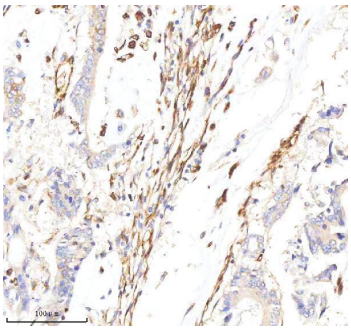
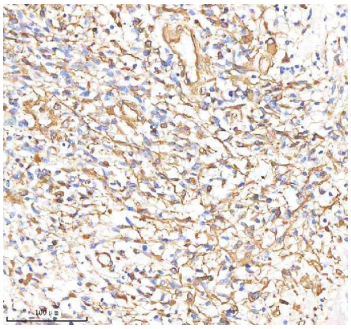
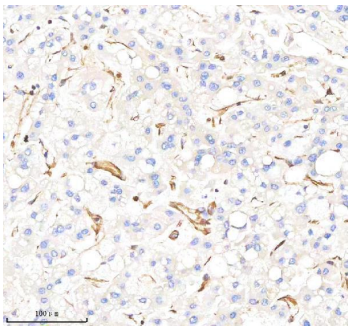


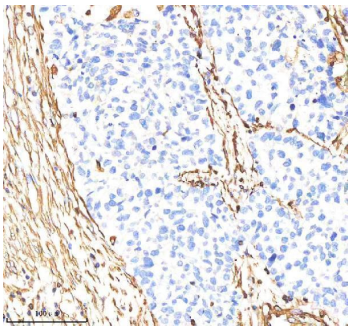
IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human non small cell lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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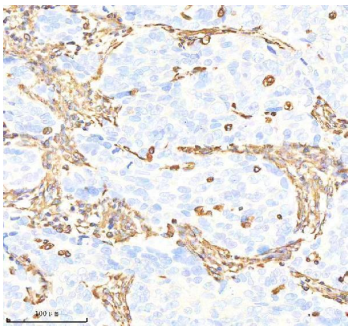
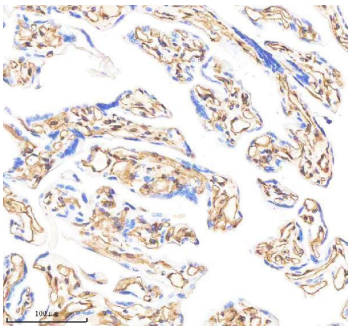
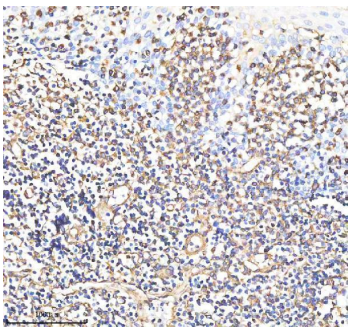


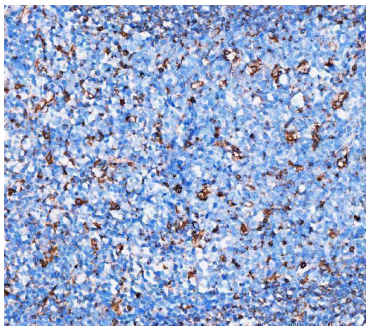
IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin using anti-Vimentin antibody (M00235-1). Vimentin was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-Vimentin Antibody (M00235-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer

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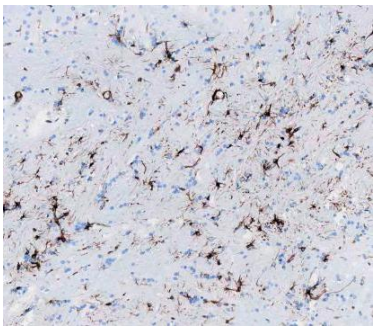
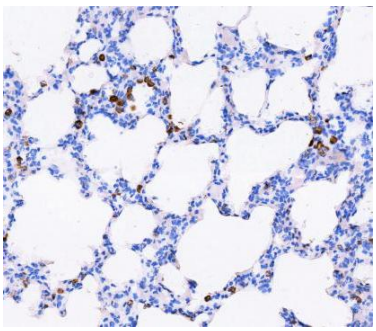
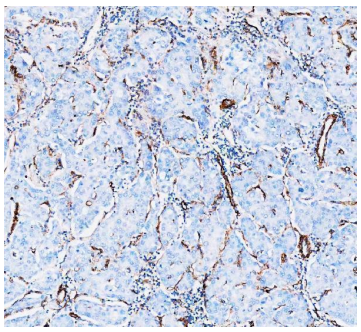


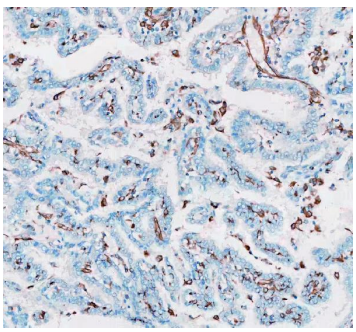
(pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human stomach cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section

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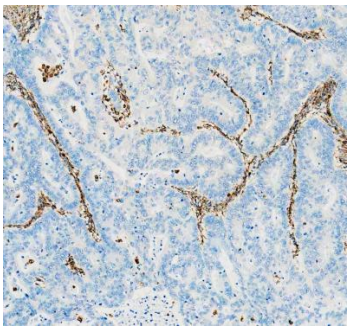
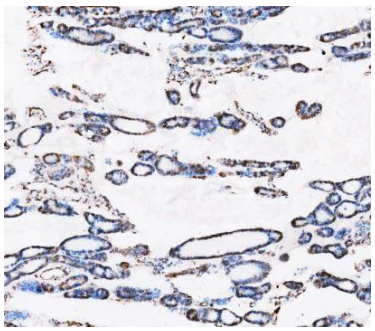
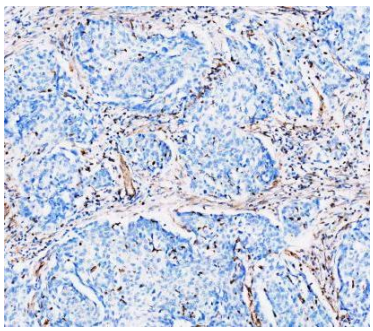


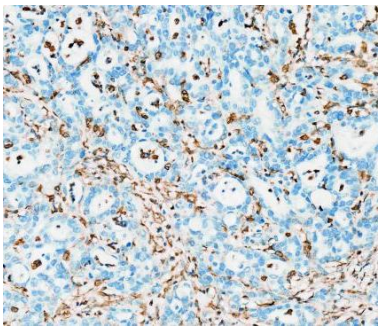
was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human cervical cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. HRP-AffiniPure Goat Anti-Rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Immunofluorescent analysis of Hela cells, using Vimentin Antibody.

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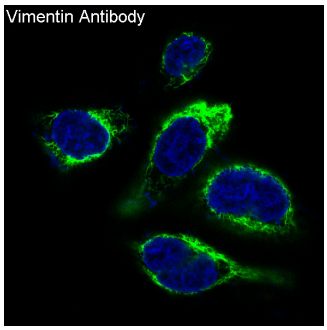
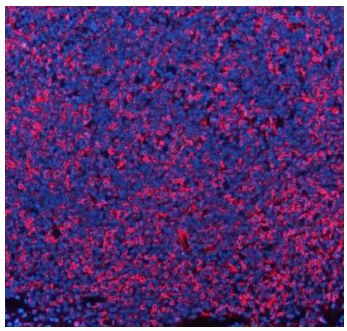
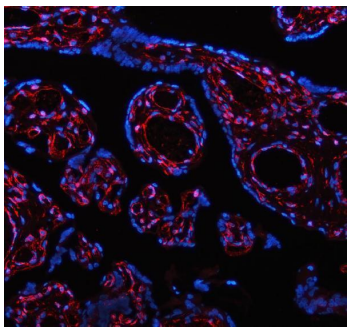
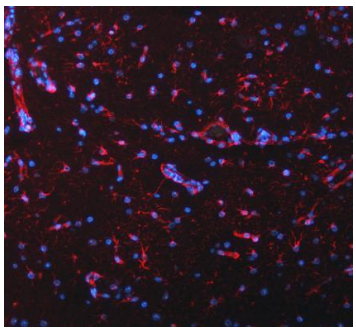




IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-

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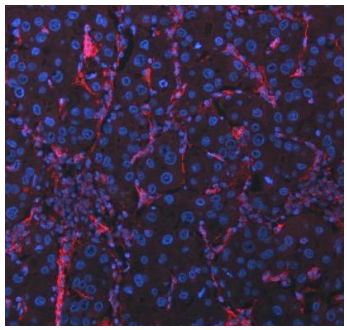
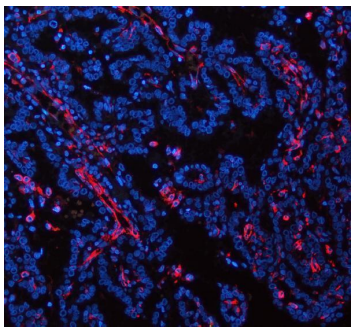
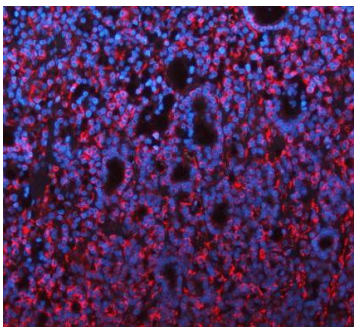


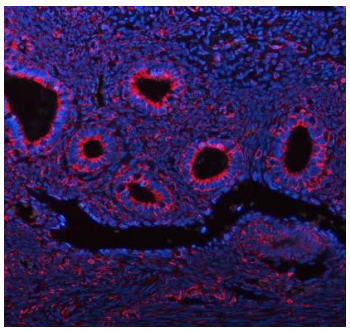
embedded section of human liver caner tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human lung caner tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human thyroid caner tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human cervical caner tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-

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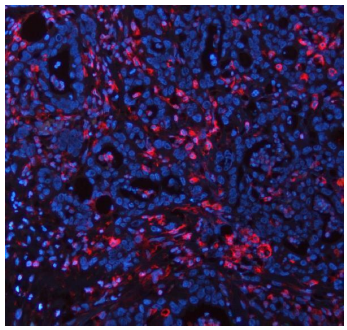
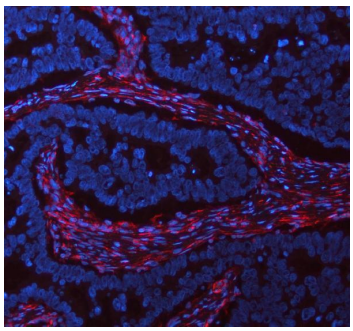
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com



embedded section of human pancreatic caner tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (M00235-1). Vimentin/VIM was detected in a paraffin-embedded section of human stomach caner tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 25 ug/mL rabbit anti-Vimentin/VIM Antibody (M00235-1) overnight at 4°C. DyLight 594 Conjugated AffiniPure Goat Anti-mouse IgG (H+L) (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

53 Publications Citing This Product

1. PubMed ID: 10.3892/etm.2021.9905, Negative pressure wound therapy enhances bone regeneration compared with conventional therapy in a rabbit radius gap□healing model

2. PubMed ID: 10.3892/ijmm.2019.4226, Botulinum toxin type A prevents the phenotypic transformation of fibroblasts induced by TGF□beta1 via the PTEN/PI3K/Akt signaling pathway

3. PubMed ID: 33656053, Liu S,Xin W,Lu Q,Tang X,Wang F,Shao W,Zhang Y,Qiu J,Hua K. Knockdown of lncRNA H19 suppresses endometriosis in vivo. Braz J Med Biol Res.2021 Feb 26;54(4):e10117.doi:10.1590/1414-431X202010117.PMID:33656053;PMCID:PMC7917710.

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