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Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody

Catalog Number: M01072-3

Overview

Product Name	Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody catalog # M01072-3. 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 CAD-1
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	P62736

Technical Details

Immunogen	A synthesized peptide derived from human alpha smooth muscle Actin
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:1000-5000 IHC 1:50-200 ICC/IF 1:50-200 FC 1:30

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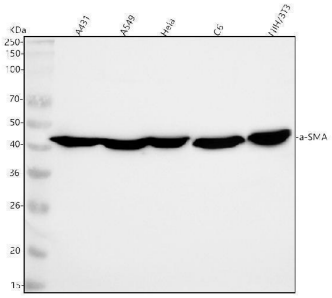
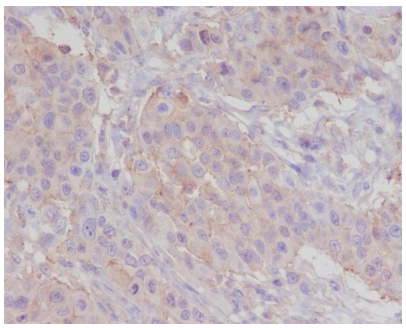
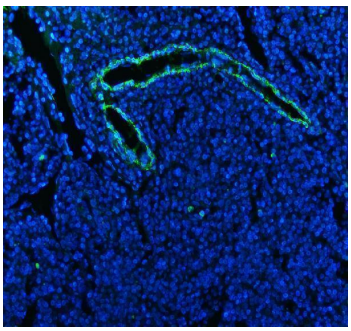
Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody (M01072-3) Images



Western blot analysis of alpha-SMA using anti-alpha-SMA antibody (M01072-3). 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 A431 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human Hela whole cell lysates. Lane 4: rat C6 whole cell lysates. Lane 5: mouse NIH/3T3 whole cell 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-alpha-SMA antigen affinity purified monoclonal antibody (Catalog # M01072-3) 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 1:1000 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 alpha-SMA at approximately 42 kDa. The expected band size for alpha-SMA is at 42 kDa.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma, using alpha smooth muscle Actin Antibody(M01072-3)ACTA2 was detected in paraffin-embedded tissue section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ACTA2 Antibody (M01072-3)overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IF analysis of alpha-SMAusing anti-alpha-SMA antibody (M01072-3). alpha-SMA was detected in a paraffin-embedded section of human tosil 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 at 1:50 rabbit anti-alpha-SMA Antibody (M01072-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 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 alpha-SMAusing anti-alpha-SMA antibody (M01072-3). alpha-SMA was detected in a paraffin-embedded section of rat brain vessel tissue. Heat mediated

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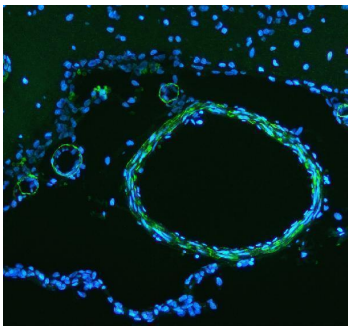

antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated at 1:50 rabbit anti-alpha-SMA Antibody (M01072-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 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.

72 Publications Citing This Product

1. PubMed ID: -, Supriono S,Kalim H,Permatasari N,Susianti H.Moringa oleifera Inhibits Liver Fibrosis Progression by Inhibition of alpha-Smooth Muscle Actin, Tissue Inhibitors of Metalloproteinases-1, and Collagen-1 in Rat Model Liver Fibrosis.Open Access Maced J Med Sci [Int

2. PubMed ID: 31893573, Fang L,Wang KK,Zhang PF,Li T,Xiao ZL,Yang M,Yu ZX.Nucleolin promotes Ang II-induced phenotypic transformation of vascular smooth muscle cells by regulating EGF and PDGF-BB.J Cell Mol Med.2020 Jan;24(2) :1917-1933.doi:10.1111/jcmm.14888.Epub 2020 Jan 1.PMI

3. PubMed ID: 32908568, Shen J,Wei W,Wang X,Yang J,Lu L,Lv X,Xue X.Proliferation of Vascular Smooth Muscle Cells under ox-LDL Is Regulated by Alismatis rhizoma Decoction via InhibitingERK1/2 and miR-17□92a Cluster Activation.Evid Based Complement Alternat Med.2020 Aug 22;2020:72

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