BOSTER BIOLOGICAL TECHNOLOGY
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Anti-AREB6/ZEB1 Antibody Picoband® (monoclonal, 8B12D7)

Catalog Number: M00548-2

About ZEB1

ZEB1 (Zinc Finger E Box-Binding Homeobox 1), also called TCF8, NIL2A or DELTA-EF1, is a protein that in humans is encoded by the ZEB1 gene. Fluorescence in situ hybridization localized the ZEB1 gene to chromosome 10p11.2. Krafchak et al. (2005) demonstrated a complex (core plus secondary) binding site for TCF8 in the promoter of the COL4A3 gene, mutant in Alport syndrome and which encodes collagen type IV alpha-3. They detected expression of TCF8 in cornea. Nishimura et al. (2006) found that delta-Ef1 was upregulated during differentiation in a mouse smooth muscle cell (SMC) line.

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Overview

Product Name	Anti-AREB6/ZEB1 Antibody Picoband® (monoclonal, 8B12D7)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-AREB6/ZEB1 Antibody Picoband® (monoclonal, 8B12D7) catalog # M00548-2. Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal 8B12D7
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	P37275

Technical Details

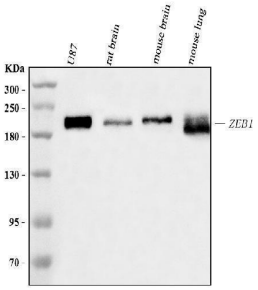
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human AREB6/ZEB1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western

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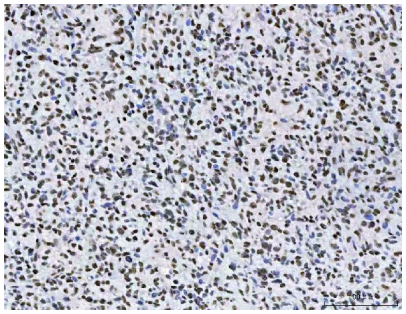
	blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Immunofluorescence, 5 ug/ml, Human

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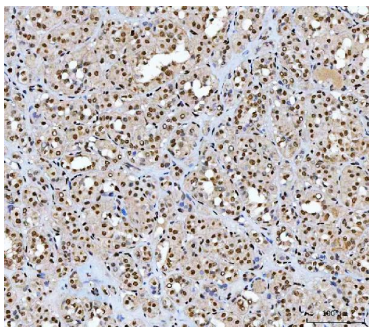
Anti-AREB6/ZEB1 Antibody Picoband® (monoclonal, 8B12D7) (M00548-2) Images



Western blot analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). 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 U87 whole cell lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse brain tissue lysates, Lane 4: 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 mouse anti-AREB6/ZEB1 antigen affinity purified monoclonal antibody (Catalog # M00548-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for AREB6/ZEB1 at approximately 200 kDa. The expected band size for AREB6/ZEB1 is at 124 kDa.



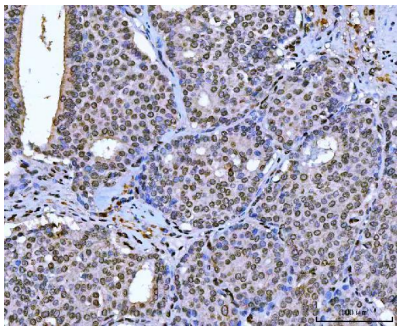
IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of human glioblastoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



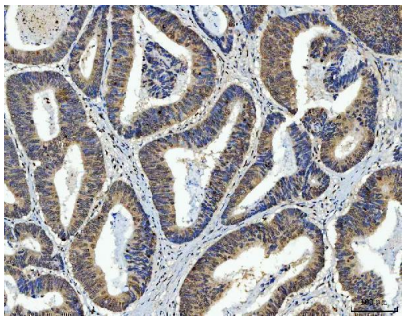
IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of human breast cancer tissue. Heat

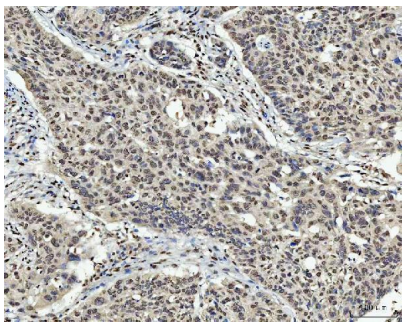
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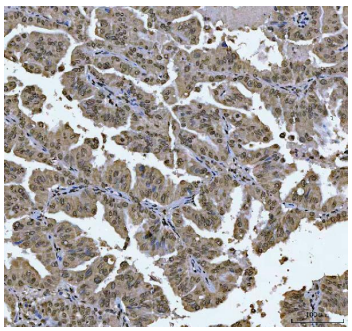
mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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 mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



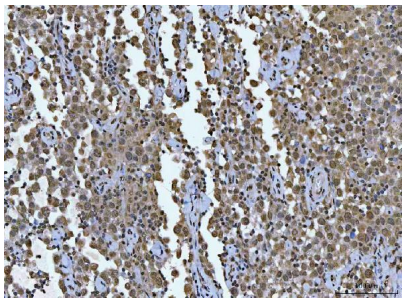
IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of human laryngeal squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



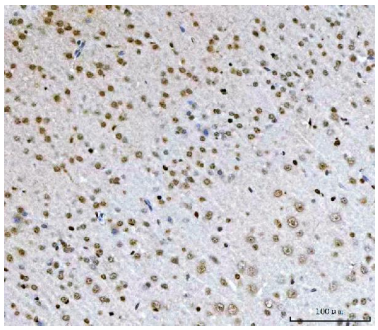
IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-

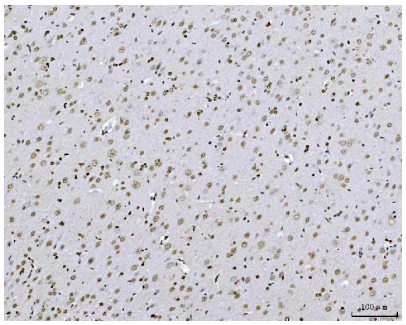
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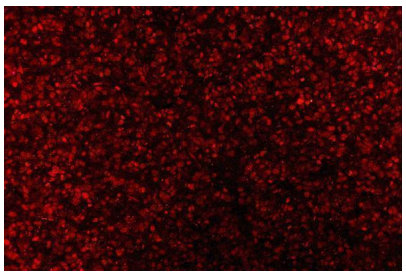
embedded section of human testicular germ cell tumor tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 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 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



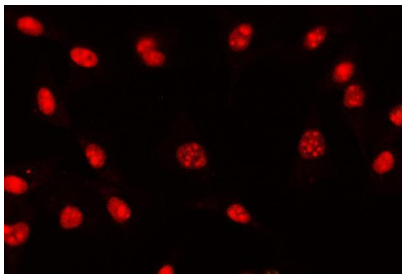
IHC analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



IF analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 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 5 ug/mL mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. Biotin conjugated goat anti-mouse IgG (BA1001) was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using DyLight®550 Conjugated Avidin (BA1134). Visualize using a fluorescence microscope and filter sets appropriate for the label used.

IF analysis of AREB6/ZEB1 using anti-AREB6/ZEB1 antibody (M00548-2). AREB6/ZEB1 was detected in an immunocytochemical section of U87 cells. Enzyme antigen

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retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-AREB6/ZEB1 Antibody (M00548-2) overnight at 4°C. DyLight®550 Conjugated Goat Anti-Mouse IgG (BA1133) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-AREB6/ZEB1 Antibody (monoclonal, 8B12D7)

For Research Use Only. Not for use in diagnostic procedures.