BOSTER BIOLOGICAL TECHNOLOGY
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Anti-AREB6/ZEB1 Antibody Picoband®

Catalog Number: A00548-2

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®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-AREB6/ZEB1 Antibody Picoband® catalog # A00548-2. Tested in ICC/IF, IHC, 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	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P37275

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ZEB1, which shares 94.9% and 100% amino acid (aa) sequence identity with rat ZEB1.

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Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
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, 0.25-0.5ug/ml, Human, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat Immunocytochemistry/Immunofluorescence, 2ug/ml, Human

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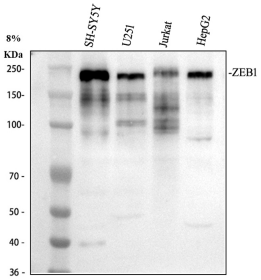
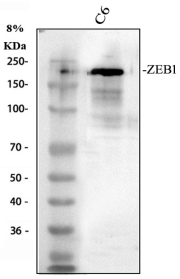
Anti-AREB6/ZEB1 Antibody Picoband® (A00548-2) Images



Western blot analysis of ZEB1 using anti-ZEB1 antibody (A00548-2). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human HepG2 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-ZEB1 antigen affinity purified polyclonal antibody (A00548-2) 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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for ZEB1 at approximately 200 kDa. The expected band size for ZEB1 is at 120 kDa.



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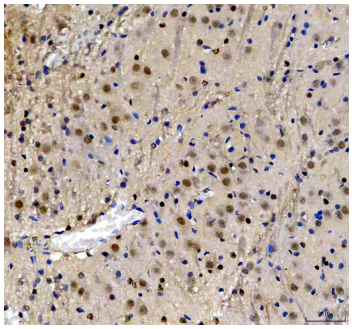

IHC analysis of ZEB1 using anti-ZEB1 antibody (A00548-2). ZEB1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ZEB1 Antibody (A00548-2) 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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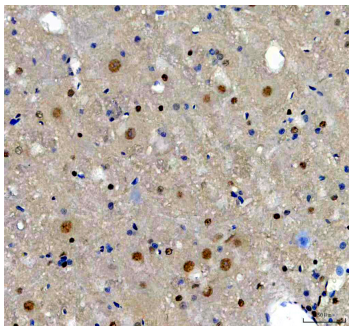

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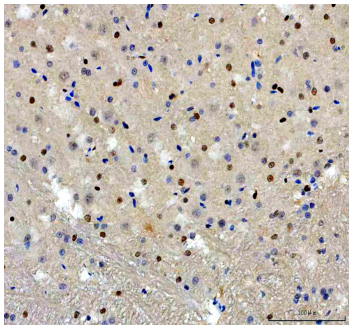

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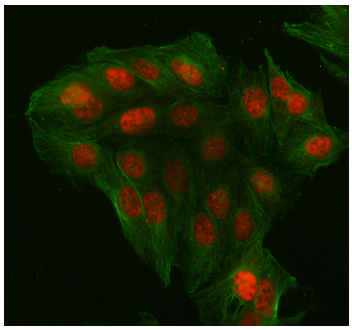

IF analysis of ZEB1 using anti-ZEB1 antibody (A00548-2) and anti-Alpha Tubulin antibody (M03989-3). ZEB1 was detected in an immunocytochemical section of U2OS cells. The cells were permeabilized with 0.1% Triton X-100 for 10 minutes at room temperature and blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ZEB1 Antibody (A00548-2) and mouse anti-Alpha Tubulin antibody (M03989-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and FITC Conjugated Goat Anti-Mouse IgG (BA1101) were 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.

3 Publications Citing This Product

1. PubMed ID: 10.1016/j.bbrc.2017.12.096, MiR-181a contributes gefitinib resistance in non-small cell lung cancer cells by targeting GAS7

2. PubMed ID: 10.1016/j.gendis.2019.12.012, All-trans retinoic acid reverses malignant biological behavior of hepatocarcinoma cells by regulating miR-200 family members

3. PubMed ID: 32335297, Wang Q,Shang J,Zhang Y,Zhou Y,Tang L.MiR-451a restrains the growth and metastatic phenotypes of papillary thyroid carcinoma cells via inhibiting ZEB1.Biomed Pharmacother.2020 Jul;127:109901.doi:10.1016/j. biopha.2020.109901.Epub 2020 Apr 23.PMID:32335297.

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