Datasheet for ABIN3042325

anti-ZEB2 antibody (AA 1-200)

2 Images

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Overview

Quantity:	100 µg
Target:	ZEB2
Binding Specificity:	AA 1-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ZEB2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Anti-Smad Interacting Protein 1/ZEB2 Antibody Picoband®
Immunogen:	E.coli-derived human ZEB2 recombinant protein (Position: M1-P200). Human ZEB2 shares 92% amino acid (aa) sequence identity with mouse ZEB2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Smad Interacting Protein 1/ZEB2 Antibody Picoband® (ABIN3042325). Tested in Flow Cytometry, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human. 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	ZEB2
Alternative Name:	ZEB2 (ZEB2 Products)
Background:	Synonyms: Zinc finger E-box-binding homeobox 2,Smad-interacting protein 1,SMADIP1,Zinc finger homeobox protein 1b,ZEB2,KIAA0569, SIP1, ZFHX1B, ZFX1B,HRIHFB2411, Tissue Specificity: Expressed in striatal neurons of patients with Huntington disease (at protein level). Brain, kidney, placenta, colon, heart, liver, spleen, skeletal muscle, prostate, thymus and pancreas. Highly expressed in fetal tissue. . Background: ZEB2 (Zinc finger E-box-binding homeobox2), also known as SIP1 or ZINC FINGER HOMEOBOX 1B (ZFHX1B), is a protein that in humans is encoded by the ZEB2 gene. The ZEB2 gene is a member of the ZEB1/Drosophila Zfh1 family of 2-handed zinc finger/homeodomain proteins and functions as a DNA-binding transcriptional repressor that interacts with activated SMADs, the transducers of TGF-beta signaling, and interacts with the nucleosome remodeling and histone deacetylation (NURD) complex. By radiation hybrid analysis, this gene is mapped to 2q22. It has been found that synthesis of ZEB2 was upregulated following SNAI1 expression in human cell lines, and the expression of SNAI1 in epithelial cells can trigger an epithelial-mesenchyme transition. Sequence Similarities: Belongs to the delta-EF1/ZFH-1 C2H2-type zinc-finger family.
Molecular Weight:	200 kDa
Gene ID:	9839
UniProt:	O60315
Pathways:	Tube Formation

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1 µg/mL, Human Immunocytochemistry, 0.5-1 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human1. Beltran, M., Puig, I., Pena, C., Garcia, J. M., Alvarez, A. B., Pena, R., Bonilla, F., Garcia de Herreros, A. A natural antisense transcript regulates Zeb2/Sip1 gene expression during Snail1-induced epithelial-mesenchymal transition. Genes

Application Details

	Dev. 22: 756-769, 2008. 2. Nagase, T., Ishikawa, K., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. IX. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro. DNA Res. 5: 31-39, 1998. 3. Vandewalle, C., Comijn, J., De Craene, B., Vermassen, P., Bruyneel, E., Andersen, H., Tulchinsky, E., Van Roy, F., Berx, G. SIP1/ZEB2 induces EMT by repressing genes of different epithelial cell-cell junctions. Nucleic Acids Res. 33: 6566-6578, 2005. 4. Wakamatsu, N., Yamada, Y., Yamada, K., Ono, T., Nomura, N., Taniguchi, H., Kitoh, H., Mutoh, N., Yamanaka, T., Mushiake, K., Kato, K., Sonta, S., Nagaya, M. Mutations in SIP1, encoding Smad interacting protein-1, cause a form of Hirschsprung disease. Nature Genet. 27: 369-370, 2001.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

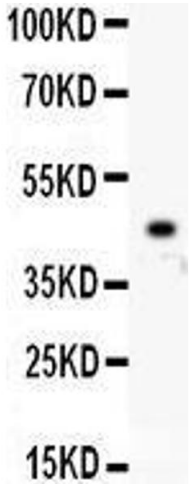
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	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.

Images

Western Blotting

Image 1. Anti- ZEB2antibody, Western blotting All lanes: Anti ZEB2 at 0.5ug/ml WB: SMMC Whole Cell Lysate at 40ug Predicted bind size: 136KD Observed bind size: 136KD



Western Blotting

Image 2. Anti- ZEB2antibody, Western blotting All lanes: Anti ZEB2 at 0.5ug/ml WB: Recombinant Human ZEB2 Protein 0.5ng Predicted bind size: 45KD Observed bind size: 45KD