abcam

Product datasheet

Anti-ZEB1 antibody ab81972

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Overview

Product name	Anti-ZEB1 antibody
Description	Goat polyclonal to ZEB1
Host species	Goat
Specificity	ab81972 is expected to recognize both reported isoforms (NP_001121600.1; NP_110378.3).
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Chicken, Hamster, Cow, Xenopus laevis, Cynomolgus monkey, Orangutan
Immunogen	Synthetic peptide corresponding to Human ZEB1 aa 309-323 (internal sequence). According to NP_001121600.1 (or 325-339 of NP_110378.3). Sequence: C-RPQIRQKIENKPLQE Database link: **NP_001121600.1** Run BLAST with Run BLAST with
Positive control	ICC/IF: U2OS cells
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 0.5% Tris buffered saline

Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab81972 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★☆☆☆☆ (1)	Use a concentration of 0.05 - 0.2 µg/ml. Predicted molecular weight: 124 kDa. A 1 hour primary incubation is recommended for this product.
ICC/IF	★☆☆☆☆ (1)	Use a concentration of 10 µg/ml.

Target

Function	Inhibits interleukin-2 (IL-2) gene expression. May be responsible for transcriptional repression of the IL-2 gene. Enhances or represses the promoter activity of the ATP1A1 gene depending on the quantity of cDNA and on the cell type. Represses E-cadherin promoter and induces an epithelial-mesenchymal transition (EMT) by recruiting SMARCA4/BRG1. Represses BCL6 transcription in the presence of the corepressor CTBP1. Promotes tumorigenicity by repressing stemness-inhibiting microRNAs.
Tissue specificity	Colocalizes with SMARCA4/BRG1 in E-cadherin-negative cells from established lines, and stroma of normal colon as well as in de-differentiated epithelial cells at the invasion front of colorectal carcinomas (at protein level). Expressed in heart and skeletal muscle, but not in liver, spleen, or pancreas.
Involvement in disease	Defects in ZEB1 are the cause of posterior polymorphous corneal dystrophy type 3 (PPCD3) [MIM:609141]. PPCD is a rare disease involving metaplasia and overgrowth of corneal endothelial cells. In patients with PPCD, these cells manifest in an epithelial morphology and gene expression pattern, produce an aberrant basement membrane, and, sometimes, spread over the iris and nearby structures in a way that increases the risk for glaucoma. Defects in ZEB1 are the cause of corneal dystrophy Fuchs endothelial type 6 (FECD6) [MIM:613270]. It is an ocular disorder caused by loss of endothelium of the central cornea. It is characterized by focal wart-like guttata that arise from Descemet membrane and develop in the central cornea, epithelial blisters, reduced vision and pain. Descemet membrane is thickened by abnormal collagenous deposition.
Sequence similarities	Belongs to the delta-EF1/ZFH-1 C2H2-type zinc-finger family. Contains 7 C2H2-type zinc fingers. Contains 1 homeobox DNA-binding domain.
Cellular localization	Nucleus.

Images

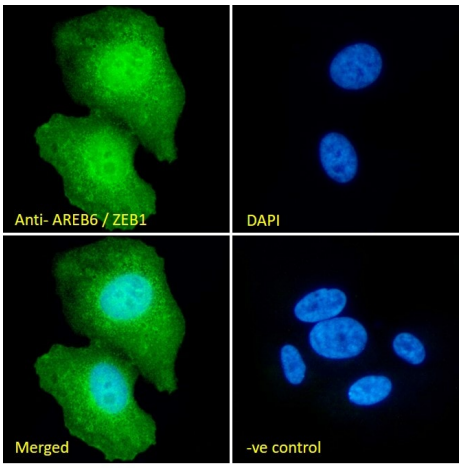
Western blot - Anti-ZEB1 antibody (ab81972)

Anti-ZEB1 antibody (ab81972) at 0.05 µg/ml + Mouse heart tissue lysate in ripa buffer at 35 µg

Developed using the ECL technique.

Predicted band size: 124 kDa
Observed band size: 100 kDa

Exposure time: 1 hour



Immunocytochemistry/ Immunofluorescence - Anti-ZEB1 antibody (ab81972)

Immunocytochemistry/Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10µg/mL) followed by Alexa Fluor 488 secondary antibody (2µg/mL), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10µg/mL) followed by Alexa Fluor 488 secondary antibody (2µg/mL).

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