

ZEB1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1849a

Specification

ZEB1 Antibody - Product Information

Application	E, WB, IF, FC, IHC
Primary Accession	P37275
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	124kDa KDa

Description

This gene encodes a zinc finger transcription factor. The encoded protein likely plays a role in transcriptional repression of interleukin 2. Mutations in this gene have been associated with posterior polymorphous corneal dystrophy-3 and late-onset Fuchs endothelial corneal dystrophy. Alternatively spliced transcript variants encoding different isoforms have been described.

Immunogen

Purified recombinant fragment of human ZEB1 (AA: 967-1108) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

ZEB1 Antibody - Additional Information

Gene ID 6935

Other Names

Zinc finger E-box-binding homeobox 1, NIL-2-A zinc finger protein, Negative regulator of IL2, Transcription factor 8, TCF-8, ZEB1, AREB6, TCF8

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ZEB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ZEB1 Antibody - Protein Information

Name ZEB1 ([HGNC:11642](#))

Function

Acts as a transcriptional repressor. Inhibits interleukin-2 (IL-2) gene expression. 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. Positively regulates neuronal differentiation. Represses RCOR1 transcription activation during neurogenesis. Represses transcription by binding to the E box (5'-CANNTG-3'). In the absence of TGF β 1, acts as a repressor of COL1A2 transcription via binding to the E-box in the upstream enhancer region (By similarity).

Cellular Location

Nucleus

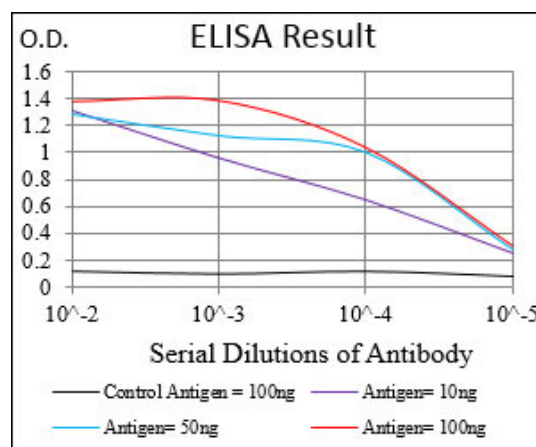
Tissue Location

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

ZEB1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



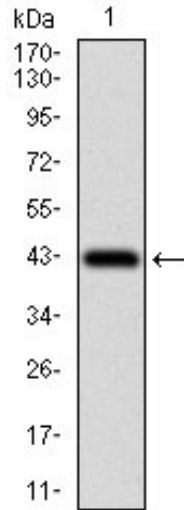


Figure 1: Western blot analysis using ZEB1 mAb against human ZEB1 recombinant protein. (Expected MW is 41.7 kDa)

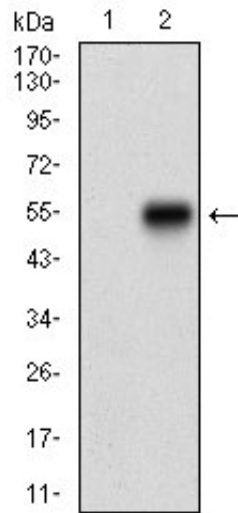


Figure 2: Western blot analysis using ZEB1 mAb against HEK293 (1) and ZEB1 (AA: 967-1108)-hlgGFc transfected HEK293 (2) cell lysate.

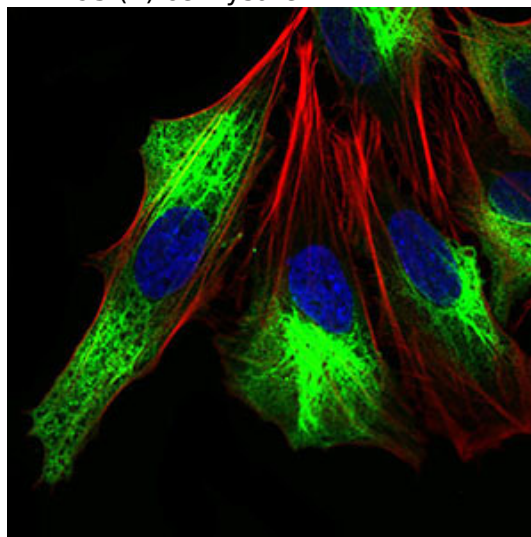


Figure 3: Immunofluorescence analysis of HeLa cells using ZEB1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

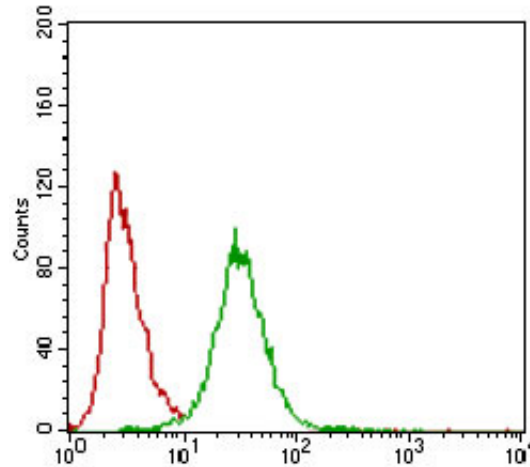


Figure 4: Flow cytometric analysis of Hela cells using ZEB1 mouse mAb (green) and negative control (red).

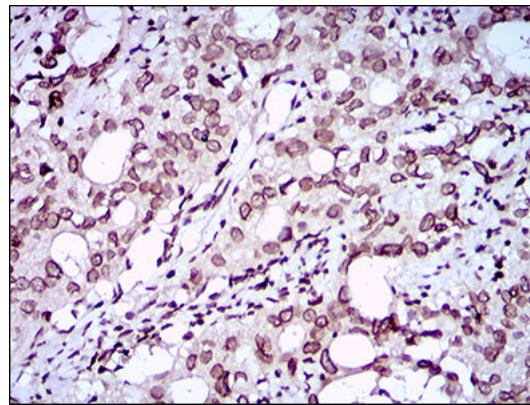


Figure 5: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using ZEB1 mouse mAb with DAB staining.

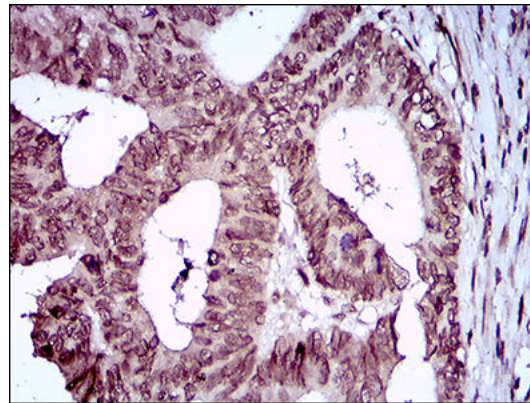


Figure 6: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ZEB1 mouse mAb with DAB staining.

ZEB1 Antibody - Background

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ZEB1 Antibody - References

1. J Cancer Res Clin Oncol. 2012 Aug;138(8):1329-38. 2. Mol Cell Biochem. 2012 Jul;366(1-2):223-9.