

**ZEB1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1849a**

**Specification**

**ZEB1 Antibody - Product Information**

Application	<b>E, WB, IF, FC, IHC</b>
Primary Accession	<a href="#">P37275</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>124kDa KDa</b>

**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 $\beta$ 1, acts as a repressor of COL1A2 transcription via binding to the E-box in the upstream enhancer region (By similarity).

### Cellular Location

Nucleus

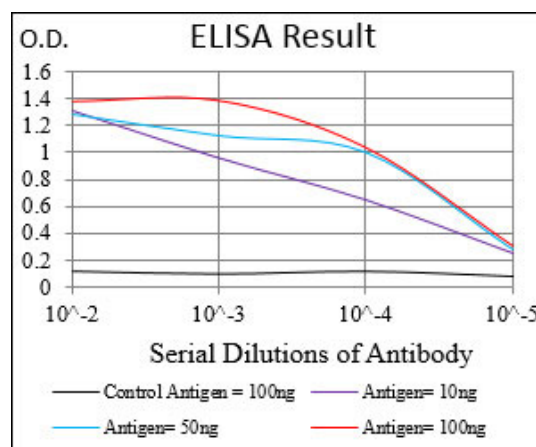
### Tissue Location

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](#)



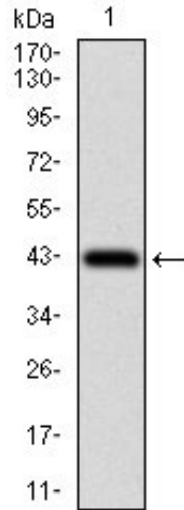


Figure 1: Western blot analysis using ZEB1 mAb against human ZEB1 recombinant protein. (Expected MW is 41.7 kDa)

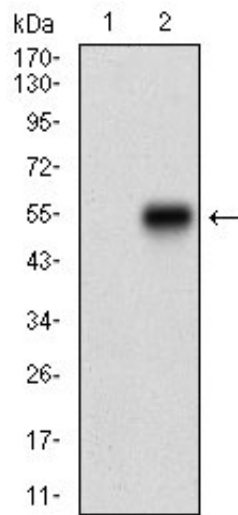


Figure 2: Western blot analysis using ZEB1 mAb against HEK293 (1) and ZEB1 (AA: 967-1108)-hlgGfc transfected HEK293 (2) cell lysate.

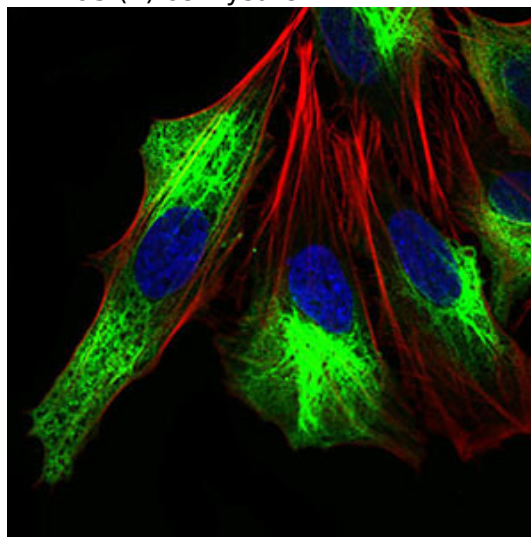


Figure 3: Immunofluorescence analysis of HeLa cells using ZEB1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

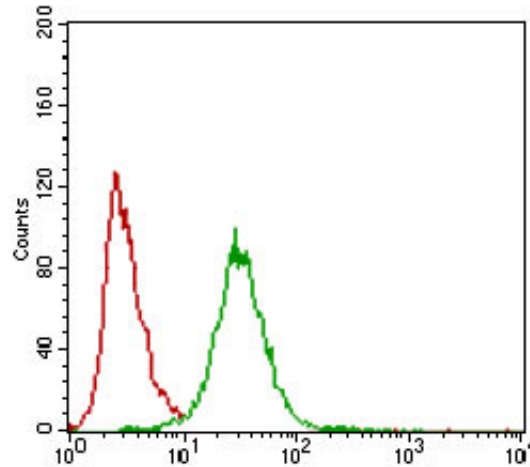


Figure 4: Flow cytometric analysis of Hela cells using ZEB1 mouse mAb (green) and negative control (red).

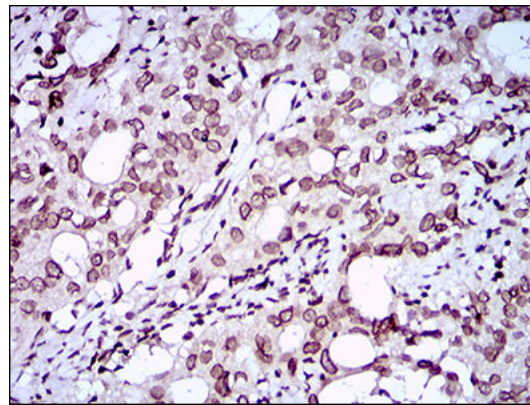


Figure 5: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using ZEB1 mouse mAb with DAB staining.

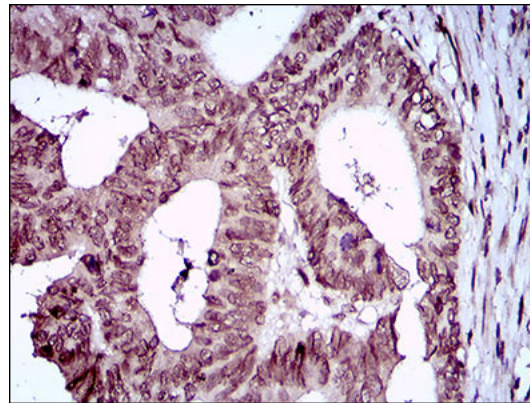


Figure 6: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ZEB1 mouse mAb with DAB staining.

### ZEB1 Antibody - Background

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. ; ; ;

### 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.