

ZEB1 antibody (Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM1878A

Product Information

Application	WB, FC, E
Primary Accession	P37275
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,K
Clone Names	213CT14.1.5
Calculated MW	124074
Antigen Region	69-97

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
Target/Specificity	This ZEB1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 69-97 amino acids from human ZEB1.
Dilution	WB~~1:500~16000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ZEB1 antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

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 TGFB1, 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

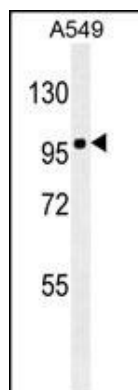
Background

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.

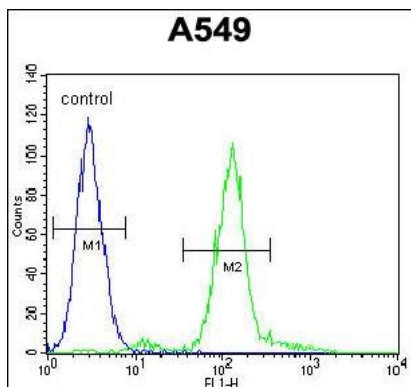
References

Drake, J.M., et al. J. Biol. Chem. 285(44):33940-33948(2010) Takeyama, Y., et al. Cancer Lett. 296(2):216-224(2010) Nakahata, S., et al. Oncogene 29(29):4157-4169(2010) Mehta, J.S., et al. Invest. Ophthalmol. Vis. Sci. 49(1):184-188(2008) Manavella, P.A., et al. Biochem. Biophys. Res. Commun. 360(3):621-626(2007)

Images



ZEB1 Antibody (Ascites) (Cat. #AM1878a) western blot analysis in A549 cell line lysates (35µg/lane). This demonstrates the ZEB1 antibody detected the ZEB1 protein (arrow).



ZEB1 Antibody (Ascites) (Cat. #AM1878a) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-mouse secondary antibodies were used for the analysis.

Citations

- [Inhibition of ATM reverses EMT and decreases metastatic potential of cisplatin-resistant lung cancer cells through JAK/STAT3/PD-L1 pathway.](#)
- [Eupalinolide A induces autophagy via the ROS/ERK signaling pathway in hepatocellular carcinoma cells.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.