

Product Datasheet

ZEB1 Antibody - BSA Free NBP1-88845

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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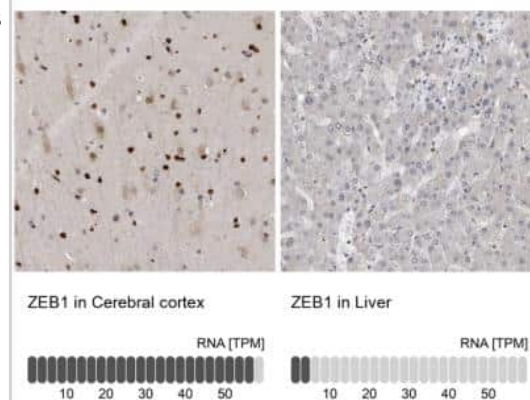
NBP1-88845

ZEB1 Antibody - BSA Free

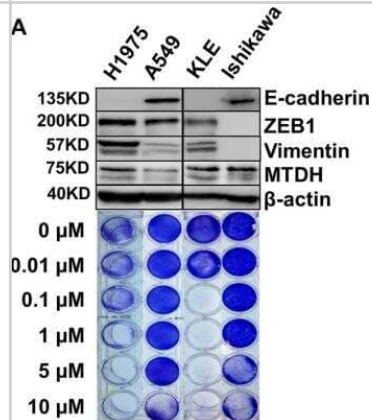
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	124 kDa
Product Description	
Host	Rabbit
Gene ID	6935
Gene Symbol	ZEB1
Species	Human
Reactivity Notes	Please note that Mouse was reported in PMID:35021086 which used a previous lot that is no longer available. The current lot of this antibody is not validated for Mouse. Please contact technical services if you have any questions.
Marker	Mesenchymal Cells Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: EAEKPESVSSATGDGNLSPSQPPLKNLLSLLKAYYALNAQPSAEELSKIADSV NLPLDVVKKWFEKMQAGQISVQSSEPSSPEPGKVNIPAKNNDQPQSANANEP QDSTVNLQSPLKMTNSPVLVPGST
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation-exo-Seq, Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000, Chromatin Immunoprecipitation Sequencing Reported in scientific literature (PMID:35021086) , Chromatin Immunoprecipitation-exo-Seq 1-10ug per reaction
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

Images

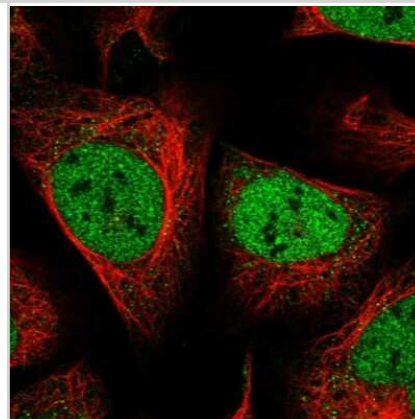
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-88845] - Analysis in human cerebral cortex and liver tissues. Corresponding ZEB1 RNA-seq data are presented for the same tissues.



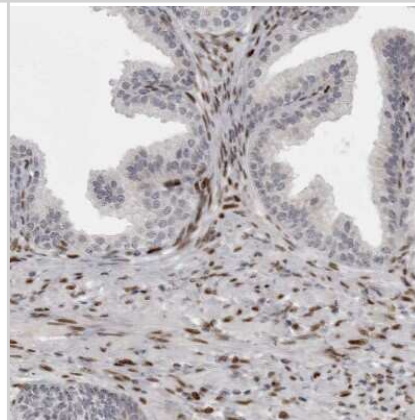
Western Blot: ZEB1 Antibody [NBP1-88845] - Mesenchymal-high cancers exhibit enhanced sensitivity to ferroptosis inducers. Representative cell lines showing enhanced sensitivity to GPx4 inhibitor ML162 correlates to low levels of E-cadherin, an epithelial marker. H1975 and A549: lung cancer; KLE and Ishikawa: endometrial cancer. Antibodies against E-cadherin, ZEB1, vimentin, and MTDH were used to detect protein extracts from non-small-cell lung cancer H1975 and A549, and endometrial cancer cell lines KLE and Ishikawa. Beta-Actin was detected as a loading control. Image collected and cropped by CiteAb from the following publication (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6746770/>) licensed under a CC-BY license.



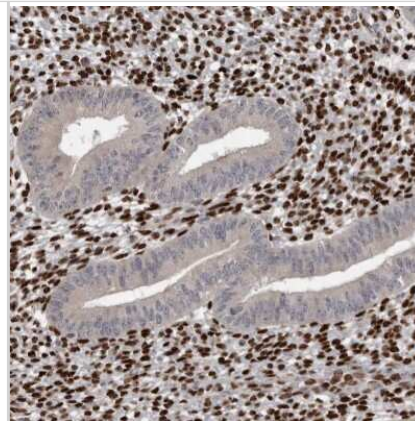
Immunocytochemistry/Immunofluorescence: ZEB1 Antibody [NBP1-88845] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



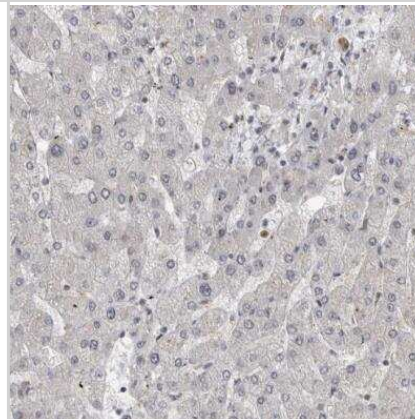
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-88845] - Staining of human prostate shows strong nuclear positivity in smooth muscle cells.



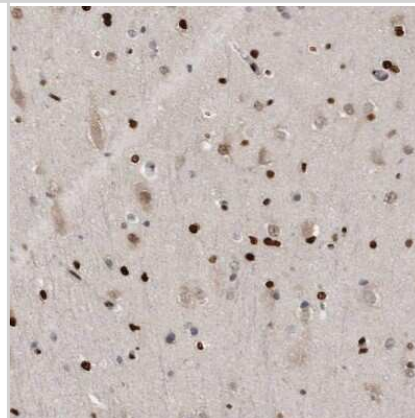
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-88845] - Immunohistochemical staining of human endometrium shows strong nuclear positivity in stromal cells.



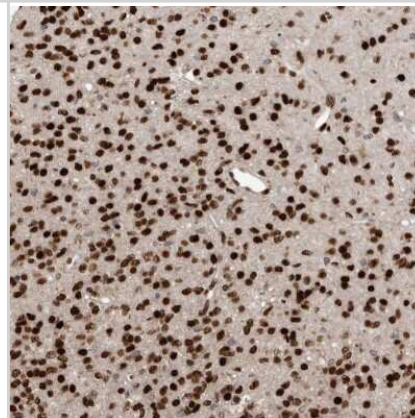
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-88845] - Staining of human liver shows no nuclear positivity in hepatocytes as expected.



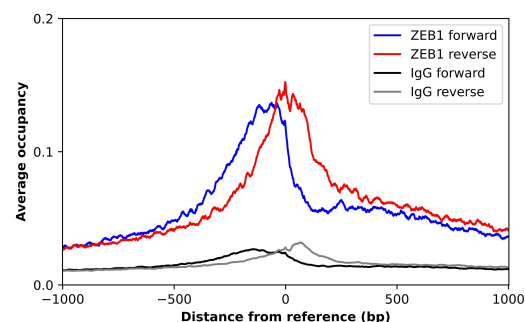
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-88845] - Staining of human cerebral cortex shows strong nuclear positivity in glial cells.



Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-88845] - Staining of human glioma shows strong nuclear positivity in tumor cells.



ChIP-Exo-Seq composite graph for Anti-ZEB1 (NBP1-88845) tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



Publications

Han Y, Villarreal-Ponce A, Gutierrez G et al. Coordinate control of basal epithelial cell fate and stem cell maintenance by core EMT transcription factor Zeb1 Cell reports 2022-01-11 [PMID: 35021086] (IF/IHC, Chip Cytometry, Mouse)

Feldker N, Ferrazzi F, Schuhwerk H et al. Genome-wide cooperation of EMT transcription factor ZEB1 with YAP and AP-1 in breast cancer EMBO J. 2020-07-21 [PMID: 32692442] (GS, Human)

Bi J, Yang S, Li L et al. Metadherin enhances vulnerability of cancer cells to ferroptosis Cell Death Dis 2019-09-17 [PMID: 31527591] (WB, Human)

Vanneste M, Huang Q, Li M et al. High content screening identifies monensin as an EMT-selective cytotoxic compound Sci Rep 2019-02-04 [PMID: 30718715] (WB, Human)

Yao X, Sun S, Zhou X et al. Clinicopathological significance of ZEB-1 and E-cadherin proteins in patients with oral cavity squamous cell carcinoma Onco Targets Ther 2017-02-28 [PMID: 28243114] (IHC-P, Human)

A Barbachano, A Fernandez-Barral, F Pereira et al. SPROUTY-2 represses the epithelial phenotype of colon carcinoma cells via upregulation of ZEB1 mediated by ETS1 and miR-200/miR-150. Oncogene 2015-10-12 [PMID: 26455323] (WB, Human)

Asnaghi L, Gezgin G, Tripathy A et al. EMT-associated factors promote invasive properties of uveal melanoma cells. Mol Vis 2015-01-01 [PMID: 26321866] (WB, Human)

Mock K, Preca BT, Brummer T et al. The EMT-activator ZEB1 induces bone metastasis associated genes including BMP-inhibitors. Oncotarget 2015-06-10 [PMID: 25973542] (WB, Human)

Meidhof S, Brabletz S, Lehmann W et al. ZEB1-associated drug resistance in cancer cells is reversed by the class I HDAC inhibitor mocetinostat. EMBO Mol Med 2015-06-01 [PMID: 25872941] (IF/IHC, WB, ICC/IF, Human)

Claudio Isella, Andrea Terrasi, Sara Erika Bellomo et al. Stromal contribution to the colorectal cancer transcriptome. Nature Genetics 2015-02-23 [PMID: 25706627] (IF/IHC, Human)

Davidson B, Holth A, Hellesylt E et al. The clinical role of epithelial-mesenchymal transition and stem cell markers in advanced-stage ovarian serous carcinoma effusions. Hum Pathol 2015-01-01 [PMID: 25455994] (IF/IHC, Human)

Ceppi P, Hadji A, Kohlhapp FJ et al. CD95 and CD95L promote and protect cancer stem cells. Nat Commun 2014-11-04 [PMID: 25366259] (ICC/IF, WB, Human)

More publications at <http://www.novusbio.com/NBP1-88845>



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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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