

# Product Datasheet

## ZEB1 Antibody NBP1-05987

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NBP1-05987**

## ZEB1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

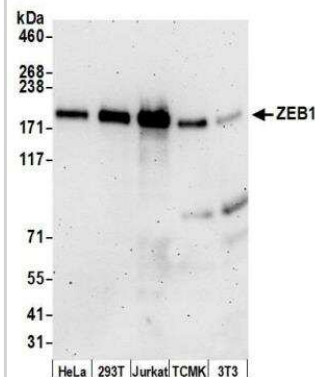
Product Description	
Host	Rabbit
Gene ID	6935
Gene Symbol	ZEB1
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 28783105).
Marker	Mesenchymal Cells Marker
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1074 and 1124 of human zinc finger E-box binding homeobox 1 using the numbering given in entry NP_110378.3

Product Application Details	
Applications	Western Blot, Simple Western, Gel Super Shift Assays, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Microarray, Chromatin Immunoprecipitation (ChIP), Knockdown Validated, Single Cell Western
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western 1:50, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/Immunofluorescence Reactivity reported in scientific literature (PMID: 24334458), Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:200-1:1000, Gel Super Shift Assays Reported in scientific literature (PMID: 21771782), Microarray Reported in scientific literature (PMID: 28955722), Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID: 29744893), Single Cell Western 100 ug/ml, Knockdown Validated Reported in scientific literature (PMID: (PMID: 31776338)
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Jurkat lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 170 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. IHC-P-Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

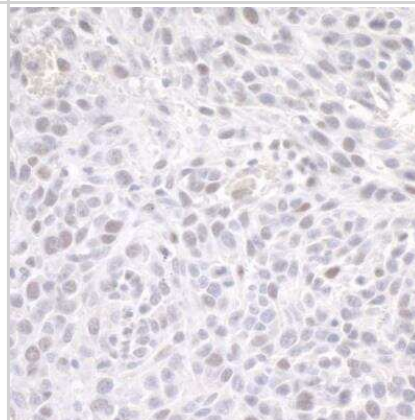


## Images

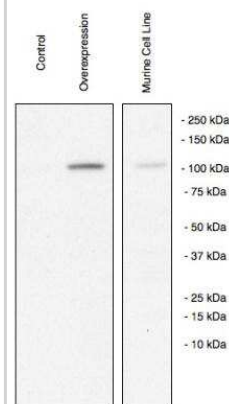
Western Blot: ZEB1 Antibody [NBP1-05987] - Samples: Whole cell lysate (15 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ZEB1 antibody (NBP1-05987) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



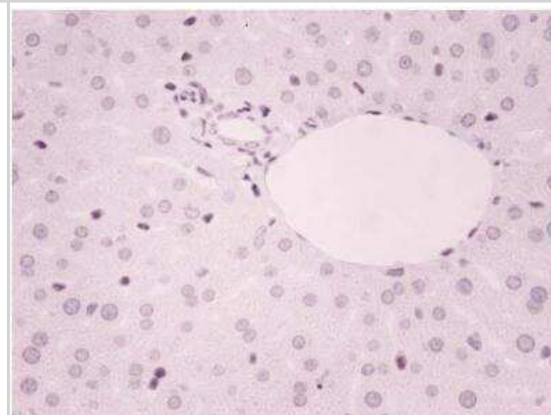
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-05987] - Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-ZEB1 (NBP1-05987) used at a dilution of 1:1000 (0.2 ug/ml). Detection: DAB.



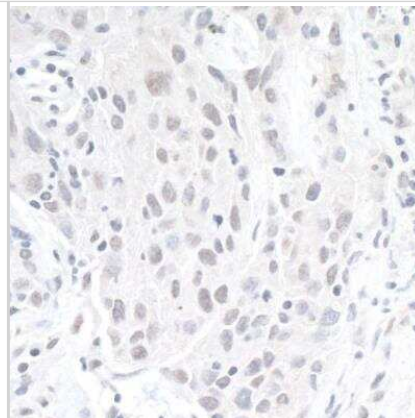
Western Blot: ZEB1 Antibody [NBP1-05987] - Analysis of ZEB1 in transfected and native mouse cell lysate. Image courtesy of anonymous customer review.



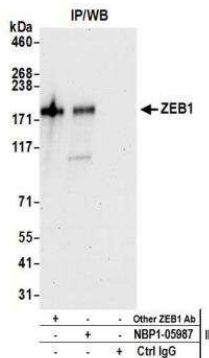
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-05987] - Analysis of ZEB1 in human liver and spleen tissues. Image courtesy of anonymous customer review.



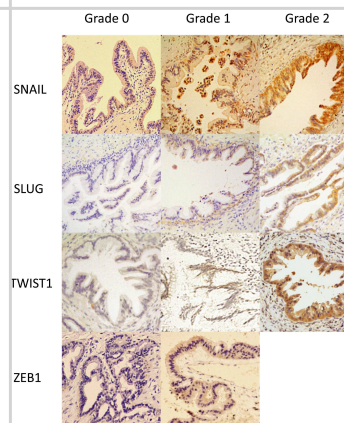
Immunohistochemistry-Paraffin: ZEB1 Antibody [NBP1-05987] - Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-ZEB1 (NBP1-05987) used at a dilution of 1:1000 (0.2 ug/ml). Detection: DAB.



Immunoprecipitation: ZEB1 Antibody [NBP1-05987] - Detection of human ZEB1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ZEB1 antibody NBP1-05987 used for IP at 3 ug per reaction. ZEB1 was also immunoprecipitated by another rabbit anti-ZEB1 antibody. For blotting immunoprecipitated ZEB1, NBP1-05987 was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

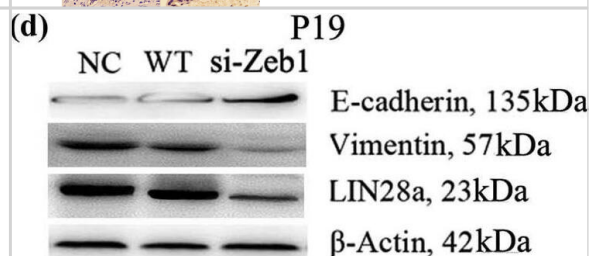


Immunohistochemical staining results of EMT regulators in HG PanIN: SNAIL, SLUG, TWIST1, and ZEB1. We categorized and defined three grades: grade 0, <10% positive staining; grade 1, 10%–50% positive; grade 2, 50%+ positive

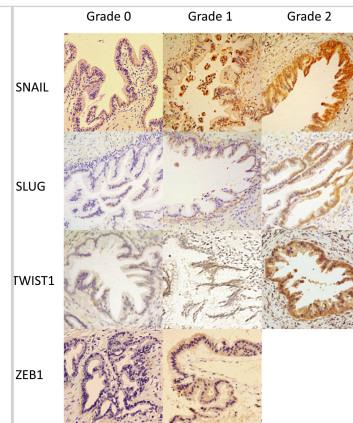


Western Blot: ZEB1 Antibody [NBP1-05987] - Lin28a & EMT-related protein expression changed after the knockdown of Zeb1 in mESCs, mEB, GC1, & P19. Western blotting demonstrated that E-cadherin protein expression increased & that Lin28a & Vimentin protein expression decreased in Zeb1-siRNA transfected mESC (panel a), mEB (panel b), GC1 (panel c), & P19 (panel d) cells. Each experiment was performed in triplicate. Abbreviations: NC, negative control; siRNA, small interfering RNA; & WT, wild-type. Image collected & cropped by CiteAb from the following publication

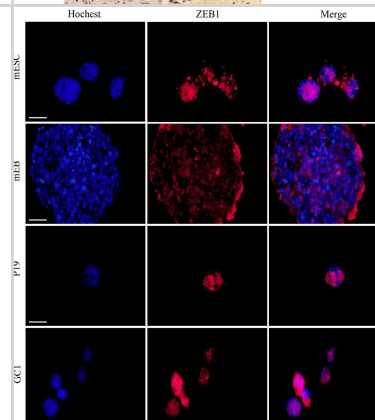
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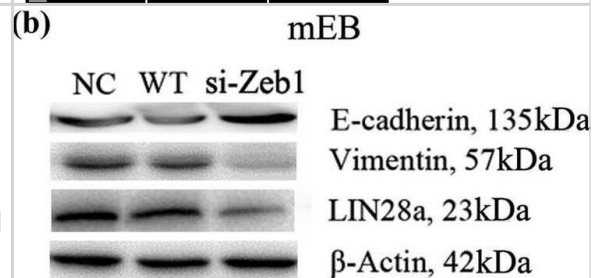
Immunohistochemistry: ZEB1 Antibody [NBP1-05987] - Immunohistochemical staining results of EMT regulators in HG PanIN: SNAIL, SLUG, TWIST1, & ZEB1. We categorized & defined three grades: grade 0, <10% positive staining; grade 1, 10%–50% positive; grade 2, 50%– positive Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30791220>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



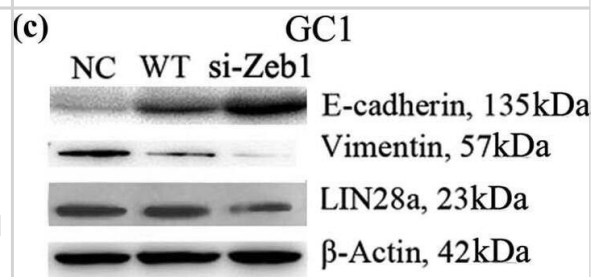
Immunocytochemistry/ Immunofluorescence: ZEB1 Antibody [NBP1-05987] - Location of Zeb1 proteins in mEC lines (mESC, mEB, GC1, & P19). Immunofluorescence analysis was used to determine localization of Zeb1 in mESC, mEB, GC1, & P19 using a Zeb1 antibody (red). Cell nuclei were labeled with Hoechst 33342 (blue). The scale for the measurement bar is 50  $\mu$ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35611144>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



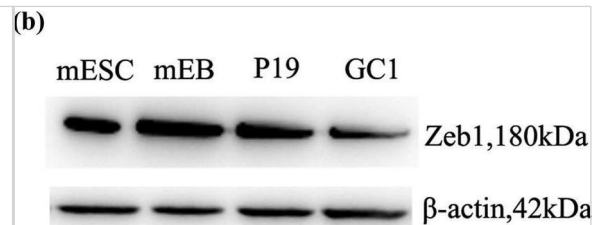
Western Blot: ZEB1 Antibody [NBP1-05987] - Lin28a & EMT-related protein expression changed after the knockdown of Zeb1 in mESCs, mEB, GC1, & P19. Western blotting demonstrated that E-cadherin protein expression increased & that Lin28a & Vimentin protein expression decreased in Zeb1-siRNA transfected mESC (panel a), mEB (panel b), GC1 (panel c), & P19 (panel d) cells. Each experiment was performed in triplicate. Abbreviations: NC, negative control; siRNA, small interfering RNA; & WT, wild-type. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35611144>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



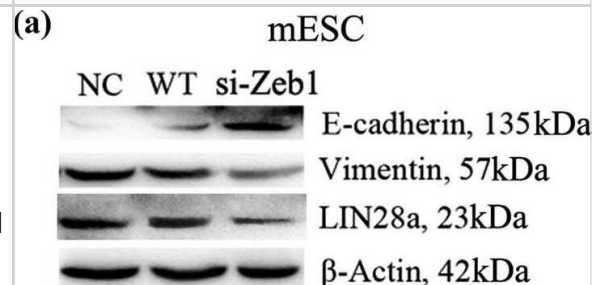
Western Blot: ZEB1 Antibody [NBP1-05987] - Lin28a & EMT-related protein expression changed after the knockdown of Zeb1 in mESCs, mEB, GC1, & P19. Western blotting demonstrated that E-cadherin protein expression increased & that Lin28a & Vimentin protein expression decreased in Zeb1-siRNA transfected mESC (panel a), mEB (panel b), GC1 (panel c), & P19 (panel d) cells. Each experiment was performed in triplicate. Abbreviations: NC, negative control; siRNA, small interfering RNA; & WT, wild-type. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35611144>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



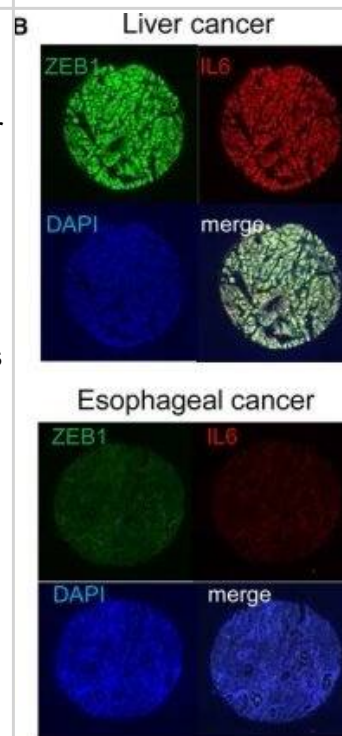
Western Blot: ZEB1 Antibody [NBP1-05987] - Zeb1 expression in mESCs, mEB, GC1, & P19. (a) Zeb1 mRNA expression detected by real-time qPCR in mESC, mEB, GC1, & P19 ( $P < 0.001$ , data presented as mean value  $\pm$  SD). (b) Zeb1 protein expression examined by western blot in mESC, mEB, GC1, & P19. Each experiment was performed in triplicate. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35611144>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



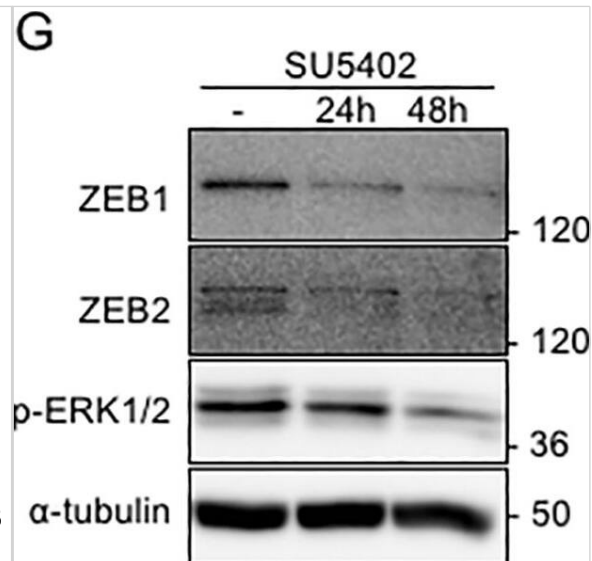
Western Blot: ZEB1 Antibody [NBP1-05987] - Lin28a & ETM-related protein expression changed after the knockdown of Zeb1 in mESCs, mEB, GC1, & P19. Western blotting demonstrated that E-cadherin protein expression increased & that Lin28a & Vimentin protein expression decreased in Zeb1-siRNA transfected mESC (panel a), mEB (panel b), GC1 (panel c), & P19 (panel d) cells. Each experiment was performed in triplicate. Abbreviations: NC, negative control; siRNA, small interfering RNA; & WT, wild-type. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35611144>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



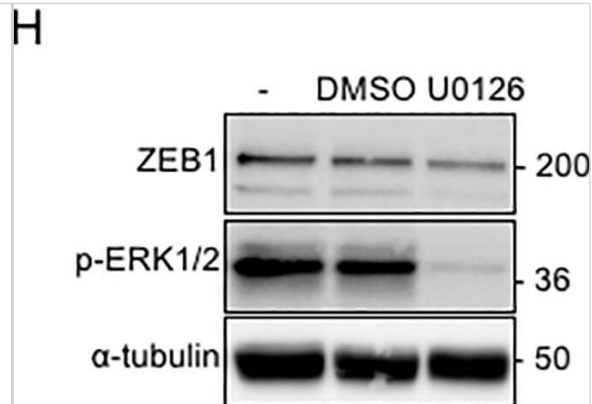
Immunocytochemistry/ Immunofluorescence: ZEB1 Antibody [NBP1-05987] - Correlation of the expression of ZEB1 & IL6 & other cytokines in various cancers. (A) Correlation analysis of the expression of ZEB1 & cytokines in breast cancer cell lines using data obtained from the Cancer Cell Line Encyclopedia (CCLE). Breast cancer cell lines were selected for the analysis, & each dot represents a cell line. Affymetrix microarray probe IDs for IL6 & IL8 are shown after the gene symbols on the y-axis. RMA, robust multiarray average. (B) Representative results obtained from the tissue array analysis in Fig. S3. The top panel shows a case that was positive for both nuclear ZEB1 staining (green) & whole-cell IL6 staining (red); scores = 4. The bottom panel shows a case that was negative for both ZEB1 & IL6; scores = 1. The samples were counterstained with DAPI to show cell density in the spot. Original magnification: 20 $\times$ . (C) Kaplan–Meier survival curves of breast & lung cancer patients obtained from a public meta-analysis database & Kaplan–Meier plotter (Gyorffy et al., 2010, 2013). The probability of overall survival of patients as split by median IL6 & IL8 expression is shown. Red: IL6 & IL8 high expression group; black: IL6 & IL8 low expression group. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28618162>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



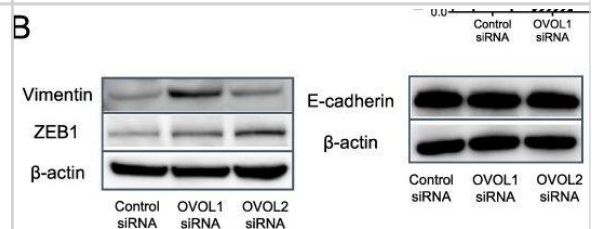
Western Blot: ZEB1 Antibody [NBP1-05987] - SU5402, FGFR1 inhibitor, affects the EMT transcription factors. (A, B) ERK1/2 phosphorylation (p-ERK1/2) determined by immunoblotting in HSC-4 & OTC-04 treated for 30 min w/ 30 ng/ml FGF2 or 30 ng/ml FGF7 in presence of 10% FBS (A) & in TSU & HOC313 cells treated for 1 h w/ 30 ng/ml FGF2 or 30  $\mu$ M SU5402 in absence of FBS (B). F2, FGF2; F7, FGF7; SU, SU5402. (C) We have previously reported that, after treatment w/ TGF- $\beta$ , NMuMG cells underwent EMT w/ the IIIc-isoform of FGFR1[17]. After NMuMG cells pretreated w/ TGF- $\beta$  transfected w/ mouse Fgfr1 siRNA or treated w/ SU5402, the cells further incubated in culture medium (CM) from TSU cells. SU, SU5402; siFR1, siRNA against mouse Fgfr1. (D) FGF2 mRNA levels determined by RT-qPCR analyses. The ratio of FGF2 mRNA to GAPDH mRNA in HSC-4 cells indicated as "1". Each value represents the mean  $\pm$  SD of triplicate determinations from a representative experiment. Similar results obtained in at least three independent experiments. (E) ERK1/2 phosphorylation (p-ERK1/2) in TSU & HOC313 cells monitored in presence of indicated concentration of SU5402 for 1 h under serum-free culture conditions, followed by immunoblot analysis. (F, G) Expression of indicated genes in TSU cells under serum-free culture conditions determined by RT-qPCR (F) & immunoblot (G) analyses, following treatment w/ 10  $\mu$ M SU5402. Each value represents the mean  $\pm$  SD of triplicate determinations from a representative experiment. Similar results obtained from at least three independent experiments. p values determined by Student's t-test. \*\*p < 0.01. (H) TSU cells treated w/ 10  $\mu$ M U0126 in absence of FBS subjected to immunoblotting w/ the indicated antibodies.  $\alpha$ -tubulin used as a loading control (A, B, C, E, G, & H). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31682640>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: ZEB1 Antibody [NBP1-05987] - SU5402, FGFR1 inhibitor, affects the EMT transcription factors. (A, B) ERK1/2 phosphorylation (p-ERK1/2) determined by immunoblotting in HSC-4 & OTC-04 treated for 30 min w/ 30 ng/ml FGF2 or 30 ng/ml FGF7 in presence of 10% FBS (A) & in TSU & HOC313 cells treated for 1 h w/ 30 ng/ml FGF2 or 30  $\mu$ M SU5402 in absence of FBS (B). F2, FGF2; F7, FGF7; SU, SU5402. (C) We have previously reported that, after treatment w/ TGF- $\beta$ , NMuMG cells underwent EMT w/ the IIIc-isoform of FGFR1[17]. After NMuMG cells pretreated w/ TGF- $\beta$  transfected w/ mouse Fgfr1 siRNA or treated w/ SU5402, the cells further incubated in culture medium (CM) from TSU cells. SU, SU5402; siFR1, siRNA against mouse Fgfr1. (D) FGF2 mRNA levels determined by RT-qPCR analyses. The ratio of FGF2 mRNA to GAPDH mRNA in HSC-4 cells indicated as "1". Each value represents the mean  $\pm$  SD of triplicate determinations from a representative experiment. Similar results obtained in at least three independent experiments. (E) ERK1/2 phosphorylation (p-ERK1/2) in TSU & HOC313 cells monitored in presence of indicated concentration of SU5402 for 1 h under serum-free culture conditions, followed by immunoblot analysis. (F, G) Expression of indicated genes in TSU cells under serum-free culture conditions determined by RT-qPCR (F) & immunoblot (G) analyses, following treatment w/ 10  $\mu$ M SU5402. Each value represents the mean  $\pm$  SD of triplicate determinations from a representative experiment. Similar results obtained from at least three independent experiments. p values determined by Student's t-test. \*\*p < 0.01. (H) TSU cells treated w/ 10  $\mu$ M U0126 in absence of FBS subjected to immunoblotting w/ the indicated antibodies.  $\alpha$ -tubulin used as a loading control (A, B, C, E, G, & H). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31682640>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

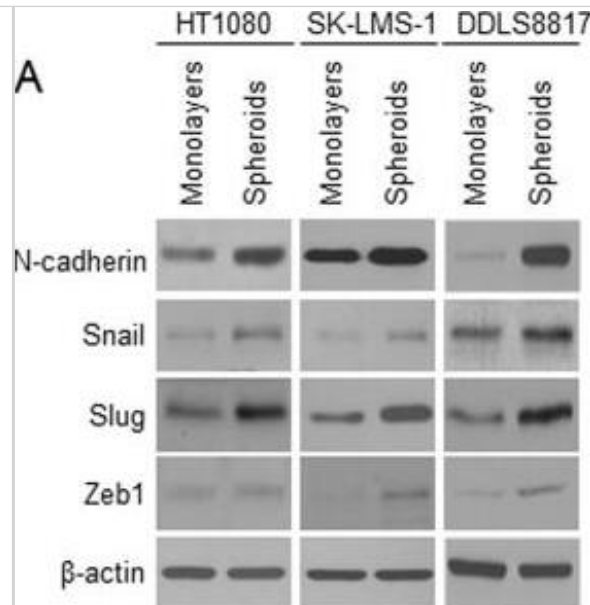


Western Blot: ZEB1 Antibody [NBP1-05987] - Vimentin & ZEB1 protein levels are regulated by OVOL1 & OVOL2 in a human SCC cell line. (A) Relative protein expression levels of OVOL1 & OVOL2 in A431 cells treated with control siRNA, OVOL1 siRNA, or OVOL2 siRNA for 48 h. (Left) Representative blot images & (right) relative expression levels calculated from three independent experiments. (B) Relative protein expression levels of vimentin, ZEB1, & E-cadherin in A431 cells treated with control siRNA, OVOL1 siRNA, or OVOL2 siRNA for 72 h. (Upper) representative blot images & (lower) relative protein expression levels calculated from three independent experiments. Mann-Whitney U-test; error bars represent mean  $\pm$  standard deviation. Protein expressions are relative to those of  $\beta$ -actin as a reference. The control siRNA value was set to 1. p-values < 0.05 were assumed to indicate a statistically significant difference; \* p < 0.05. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32106476>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

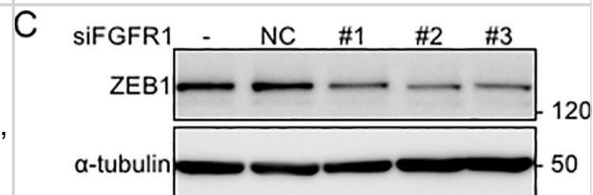




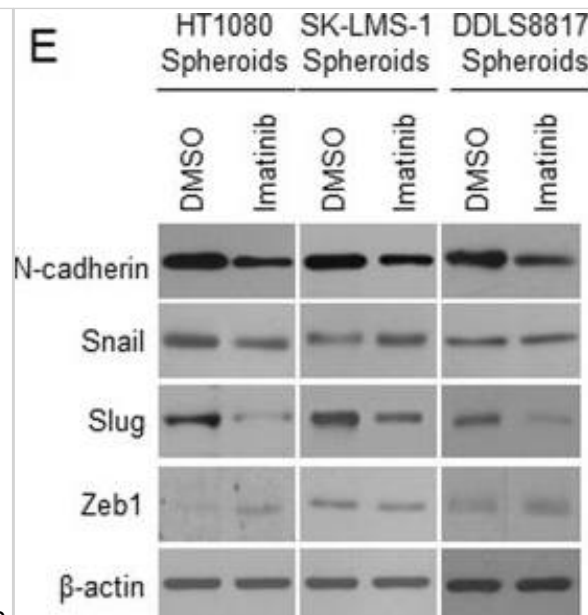
Western Blot: ZEB1 Antibody [NBP1-05987] - PDGFR- $\alpha/\beta$  promotes sarcoma CSC migration/invasion & anchorage-independent growth. a Western blot analysis of cell adhesion protein N-cadherin & EMT transcription factors Snail, Slug, & Zeb1 in human sarcoma cell lines grown as monolayers & as spheroids.  $\beta$ -actin was used as the loading control. b Representative images under light microscopy of migration & invasion assays of human sarcoma cell lines grown as monolayers or as spheroids for 24–48 h. Graphs display the number of migrated or invasive cells per field. c Representative light microscopy images of formed colonies in soft agar assay of human sarcoma cell lines grown as monolayers or spheroids for 14–20 days. Graph displays the number colonies per field. d Representative images under light microscopy of migration & invasion assays of human sarcoma cell lines grown as monolayers or as spheroids. Spheroid cells were treated with imatinib or DMSO. e Western blot analysis of N-cadherin & EMT-regulating transcription factors in human sarcoma cell lines grown as spheroids & treated with imatinib or DMSO. Experiments in a & e were performed three times with similar results. Bars represent standard deviation. \* $p < 0.05$  compared to Monolayers Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41389-018-0059-1>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: ZEB1 Antibody [NBP1-05987] - FGFR1 siRNAs attenuate the malignant phenotypes of cancer cells. (A) mRNA from TSU cells transfected with siRNAs against FGFR1 (siFGFR1) were subjected to conventional RT-PCR to determine the levels of endogenous FGFR1. (B, C, D) After transfection with siFGFR1 in TSU cells, phosphorylation of ERK1/2 (p-ERK1/2) (B), ZEB1 levels (C), & cell morphology (D) were determined. (E) TSU cells transfected with siFGFR1 were subjected to immunofluorescence analyses. Low magnification, 40 $\times$ ; high magnification, 80 $\times$ . (F, G, H, I) After either treatment with SU5402 or transfection with siFGFR1 in TSU & HOC313 cells, the number of cells & invasive properties were determined under serum-free culture conditions. (J & K) After transfection with siFGFR1c in TSU & HOC313 cells, invasive & migratory properties were determined under serum-free culture conditions in TSU & HOC313 cells, respectively. siNC, non-specific control siRNA. Each value represents the mean  $\pm$  SD of triplicate determinations from a representative experiment. Similar results were obtained from at least three independent experiments.  $p$  values were determined by Student's  $t$ -test. \* $p < 0.01$ . Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31682640>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: ZEB1 Antibody [NBP1-05987] - PDGFR- $\alpha/\beta$  promotes sarcoma CSC migration/invasion & anchorage-independent growth. a Western blot analysis of cell adhesion protein N-cadherin & EMT transcription factors Snail, Slug, & Zeb1 in human sarcoma cell lines grown as monolayers & as spheroids.  $\beta$ -actin was used as the loading control. b Representative images under light microscopy of migration & invasion assays of human sarcoma cell lines grown as monolayers or as spheroids for 24–48 h. Graphs display the number of migrated or invasive cells per field. c Representative light microscopy images of formed colonies in soft agar assay of human sarcoma cell lines grown as monolayers or spheroids for 14–20 days. Graph displays the number colonies per field. d Representative images under light microscopy of migration & invasion assays of human sarcoma cell lines grown as monolayers or as spheroids. Spheroid cells were treated with imatinib or DMSO. e Western blot analysis of N-cadherin & EMT-regulating transcription factors in human sarcoma cell lines grown as spheroids & treated with imatinib or DMSO. Experiments in a & e were performed three times with similar results. Bars represent standard deviation. \* $p < 0.05$  compared to Monolayers Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41389-018-0059-1>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: ZEB1 Antibody [NBP1-05987] - Nav1.4 protein levels are decreased in muscles from mouse models of SMA. (A) Immunoblot analysis using muscle lysate from P2, P5, P9, & P21 wild type mice. Nav1.4 protein levels increase during postnatal muscle development & form the predominant sodium channel expressed in mature skeletal muscle. GAPDH served as a loading control (N = 3). (B) Representative immunoblot with quantification, showing a decrease in levels of sodium channel Nav1.4 & Nav1.5 in P5 *Smn*<sup>-/-</sup>; *SMN2* hindlimb muscle compared with controls (N = 3). (C) Quantification of immunoblot analyses in P21 *Smn2B*<sup>-/-</sup> & control hindlimb muscles revealed a decrease in Nav1.4 levels. Early in postnatal muscle development, the Nav1.5 sodium channel isoform is the most predominant. In P21 *Smn2B*<sup>-/-</sup> mice, the protein levels of Nav1.5 are higher than in controls (N = 3). (D) The protein level of the Nav1.4 positive regulator, NF1, is not altered in muscles from P21 *Smn2B*<sup>-/-</sup> mice. Similarly, no change was detected in the protein levels of the Nav1.4 repressor ZEB. (E) Expression of sodium channel Nav1.4 in control sham & denervated samples 1 & 7 days post-denervation was assessed by immunoblot (N = 3). A decrease in the levels of Nav1.4 in muscle was noted at 7 days post-denervation. \*,  $P < 0.05$ ; \*\*,  $P < 0.01$ . Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/24119341>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Kim SY, Kim J, Kim H et Al. Fluorescence-guided tumor visualization of colorectal cancer using tumor-initiating probe yellow in preclinical models Sci Rep 2024-11-06 [PMID: 39505985]

Seok Han B, Ko S, Seok Park M et Al. Lidocaine combined with general anesthetics impedes metastasis of breast cancer cells via inhibition of TGF- $\beta$ /Smad-mediated EMT signaling by reprogramming tumor-associated macrophages Int Immunopharmacol 2024-09-22 [PMID: 39312860]

Borrelli, C;Roberts, M;Eletto, D;Hussherr, MD;Fazilaty, H;Valenta, T;Lafzi, A;Kretz, JA;Guido Vinzoni, E;Karakatsani, A;Adivarahan, S;Mannhart, A;Kimura, S;Meijs, A;Baccouche Mhamedi, F;Acar, IE;Handler, K;Ficht, X;Platt, RJ;Piscuoglio, S;Moor, AE; In vivo interaction screening reveals liver-derived constraints to metastasis Nature 2024-07-24 [PMID: 39048831]

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Kinouchi A, Jubashi T, Tatsuno R et al. Roles of ZEB1 and ZEB2 in E-cadherin expression and cell aggressiveness in head and neck cancer. Genes to cells : devoted to molecular & cellular mechanisms 2024-10-03 [PMID: 39362647]

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USA  
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Toll Free: 1.888.506.6887  
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nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

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