

# Product Datasheet

## ELK3 Antibody (OTI1H3)

### NBP2-01264

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1** **Publications: 6**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-01264](http://www.novusbio.com/NBP2-01264)

Updated 9/9/2025 v.20.1

**Earn rewards for product reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-01264](http://www.novusbio.com/reviews/destination/NBP2-01264)



**NBP2-01264**

ELK3 Antibody (OT11H3)

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OT11H3
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	44.1 kDa

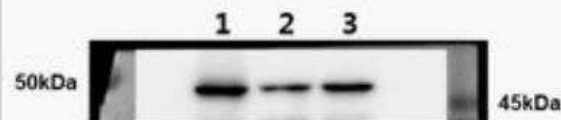
Product Description	
Description	Novus Biologicals Mouse ELK3 Antibody (OT11H3) (NBP2-01264) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-ELK3 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2004
Gene Symbol	ELK3
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Full length human recombinant protein of human ELK3(NP_005221) produced in HEK293T cell.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:2000, Flow Cytometry 1:100, Immunohistochemistry 1:150, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:150

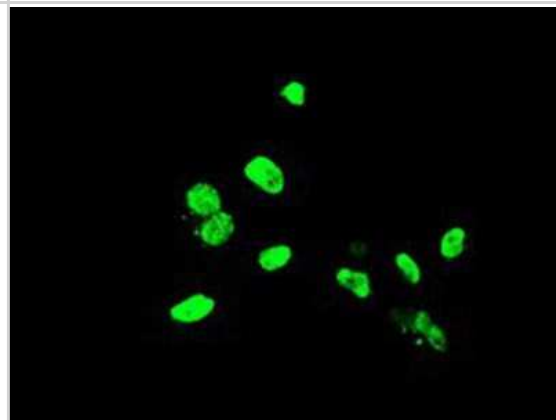


## Images

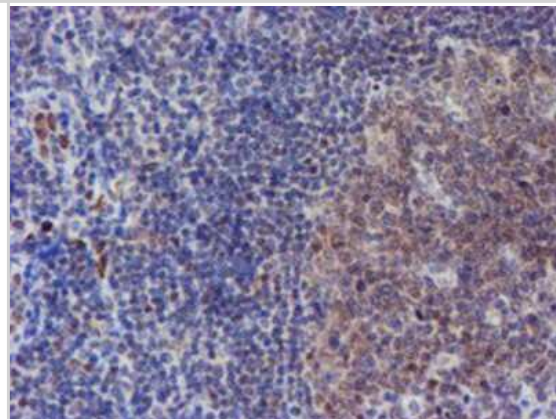
Western Blot: ELK3 Antibody (OT11H3) [NBP2-01264] - Breast cancer cells. Lane 1: MDA-MB231 + Negative control siRNA. Lane 2: MDA-MB231 + siELK3-1. Lane 3: MDA-MB231 + siELK3-2. Image from verified customer review.



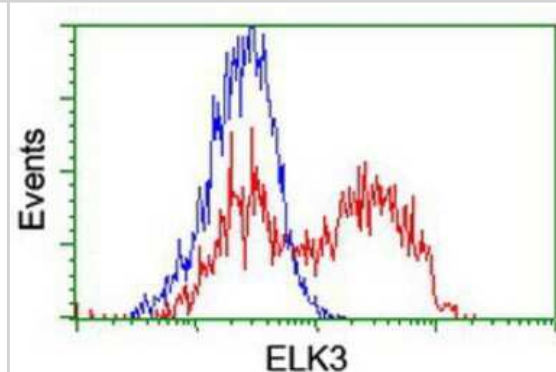
Immunocytochemistry/Immunofluorescence: ELK3 Antibody (1H3) [NBP2-01264] Staining of COS7 cells transiently transfected by pCMV6-ENTRY ELK3.



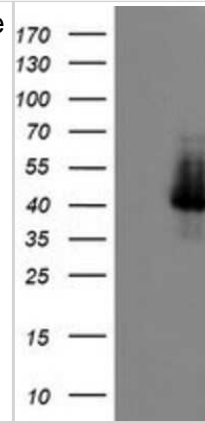
Immunohistochemistry-Paraffin: ELK3 Antibody (1H3) [NBP2-01264] - Staining of paraffin-embedded Human tonsil using anti-ELK3 mouse monoclonal antibody.



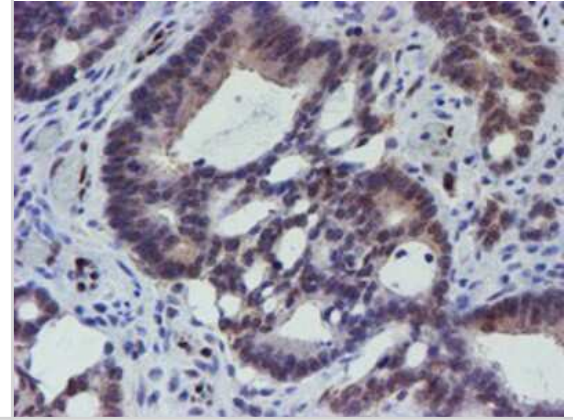
Flow Cytometry: ELK3 Antibody (1H3) [NBP2-01264] - HEK293T cells transfected with either overexpression plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ELK3 antibody, and then analyzed by flow cytometry.



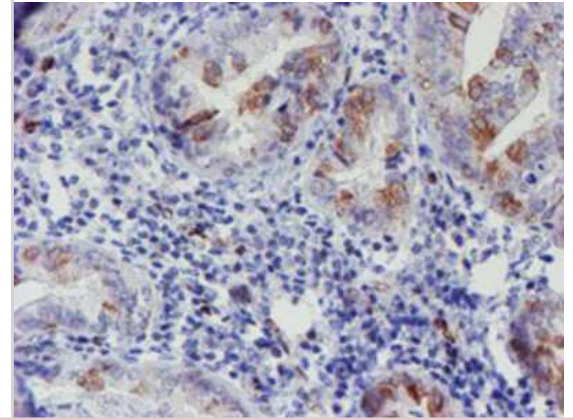
Western Blot: ELK3 Antibody (1H3) [NBP2-01264] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ELK3 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ELK3.



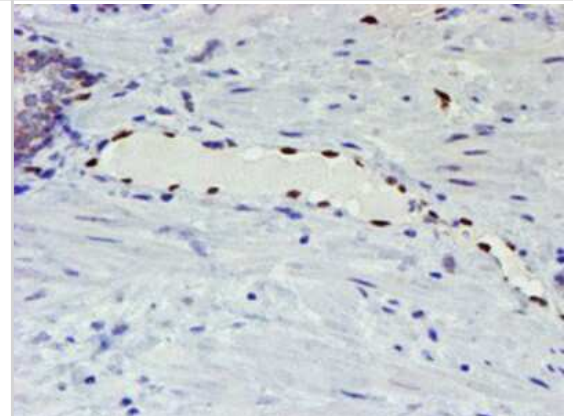
Immunohistochemistry-Paraffin: ELK3 Antibody (1H3) [NBP2-01264] - Staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-ELK3 mouse monoclonal antibody.



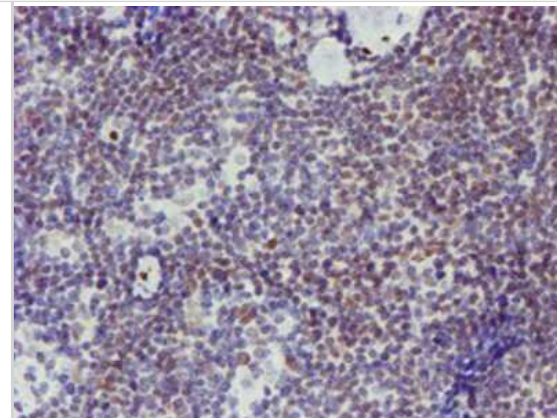
Immunohistochemistry-Paraffin: ELK3 Antibody (1H3) [NBP2-01264] - Staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ELK3 mouse monoclonal antibody.



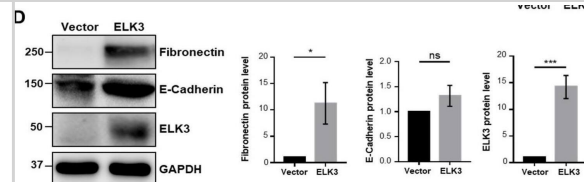
Immunohistochemistry-Paraffin: ELK3 Antibody (1H3) [NBP2-01264] - Staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-ELK3 mouse monoclonal antibody.



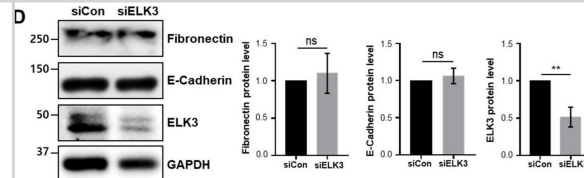
Immunohistochemistry-Paraffin: ELK3 Antibody (1H3) [NBP2-01264] - Staining of paraffin-embedded Human lymphoma tissue using anti-ELK3 mouse monoclonal antibody.



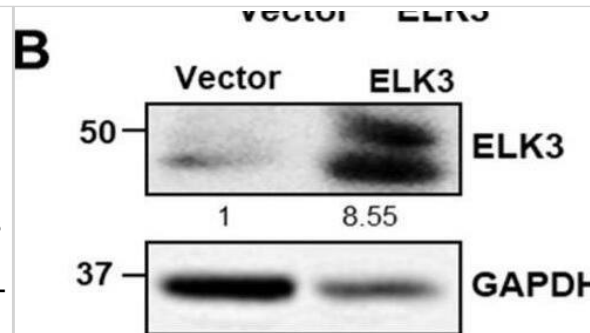
ELK3 increases the migration and invasion of SNU484 cell line in E-cadherin independent manner. (A) ELK3 mRNA levels in SNU484 cells transfected with control vector and pLenti-cMyc-DDK-ELK3 plasmid. Error bars represent the standard deviation; \*\*\*\*  $p < 0.0001$  (student's t-test). (B) ELK3 protein levels in SNU484 cells transfected with control vector and pLenti-cMyc-DDK-ELK3 plasmid. The values indicate the signal intensities of ELK3 relative to GAPDH. (C) Representative images showing cell migration (top two panels) and cell invasion (bottom two panels) of SNU484 cells transfected with control vector and pLenti-cMyc-DDK-ELK3 plasmid. Scale bar, 200  $\mu\text{m}$ . Bar graphs indicate the number of migrated cells and invaded cells. Error bars represent the standard deviation; \*\*  $p < 0.01$  and \*\*\*  $p < 0.001$  (student's t-test). (D) Epithelial marker (E-cadherin), mesenchymal marker (Fibronectin), and ELK3 protein expression in SNU484 cells transfected with control vector and ELK3. Bar graphs indicate the quantified levels of each protein, in relative scales. Error bars represent the standard deviation; \*  $p < 0.05$  and \*\*\*  $p < 0.001$  (student's t-test). ELK3, ETS transcription factor ELK3; Vector, control vector. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35409069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



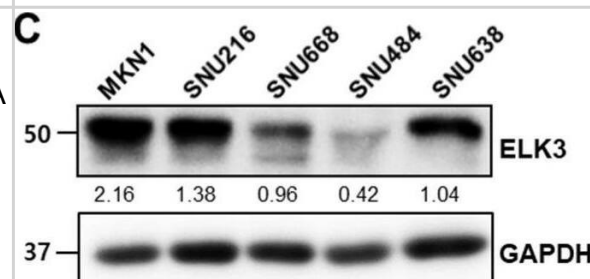
Depletion of ELK3 decreases the migration and invasion of SNU638 cell line in E-cadherin independent manner. (A) ELK3 mRNA levels in SNU638 cells transfected with siCon or siELK3. Error bars represent the standard deviation; \*\*\*\*  $p < 0.0001$  (student's t-test). (B) ELK3 protein levels in SNU638 cells transfected with siCon or siELK3. The values indicate the signal intensities of ELK3 relative to GAPDH. (C) Representative images showing cell migration (top two panels) and cell invasion (bottom two panels) of SNU638 cells transfected with siCon or siELK3. Scale bar, 200  $\mu\text{m}$ . Bar graphs indicate the number of migrated and invaded cells, respectively. Error bars represent the standard deviation; \*  $p < 0.05$  and \*\*  $p < 0.01$  (student's t-test). (D) Epithelial marker (E-cadherin), mesenchymal marker (Fibronectin), and ELK3 protein expression in SNU638 cells transfected with siCon or siELK3. Bar graphs indicate the quantified levels of each protein, in relative scales. Error bars represent the standard deviation; \*\*  $p < 0.01$  (student's t-test). ELK3, ETS transcription factor ELK3; si, small interfering RNA; Con, control. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35409069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



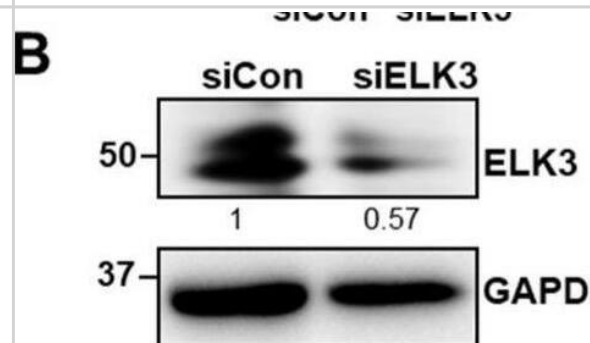
ELK3 increases the migration and invasion of SNU484 cell line in E-cadherin independent manner. (A) ELK3 mRNA levels in SNU484 cells transfected with control vector and pLenti-cMyc-DDK-ELK3 plasmid. Error bars represent the standard deviation; \*\*\*\*  $p < 0.0001$  (student's t-test). (B) ELK3 protein levels in SNU484 cells transfected with control vector and pLenti-cMyc-DDK-ELK3 plasmid. The values indicate the signal intensities of ELK3 relative to GAPDH. (C) Representative images showing cell migration (top two panels) and cell invasion (bottom two panels) of SNU484 cells transfected with control vector and pLenti-cMyc-DDK-ELK3 plasmid. Scale bar, 200  $\mu\text{m}$ . Bar graphs indicate the number of migrated cells and invaded cells. Error bars represent the standard deviation; \*\*  $p < 0.01$  and \*\*\*  $p < 0.001$  (student's t-test). (D) Epithelial marker (E-cadherin), mesenchymal marker (Fibronectin), and ELK3 protein expression in SNU484 cells transfected with control vector and ELK3. Bar graphs indicate the quantified levels of each protein, in relative scales. Error bars represent the standard deviation; \*  $p < 0.05$  and \*\*\*  $p < 0.001$  (student's t-test). ELK3, ETS transcription factor ELK3; Vector, control vector. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35409069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



ETS transcription factor ELK3 (ELK3) expression pattern in various gastric cancer cell lines. (A) ELK3 expression in gastric cancer cell lines from the Cancer Dependency Map (DepMap) database. (B) ELK3 mRNA expression in five gastric cancer cell lines, measured by reverse transcription-quantitative PCR. Error bars represent the standard deviation; \*\*  $p < 0.01$  (one-way ANOVA). (C) ELK3 protein levels in five gastric cancer cell lines. The values indicate the signal intensities of ELK3 relative to GAPDH. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35409069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Depletion of ELK3 decreases the migration and invasion of SNU638 cell line in E-cadherin independent manner. (A) ELK3 mRNA levels in SNU638 cells transfected with siCon or siELK3. Error bars represent the standard deviation; \*\*\*\*  $p < 0.0001$  (student's t-test). (B) ELK3 protein levels in SNU638 cells transfected with siCon or siELK3. The values indicate the signal intensities of ELK3 relative to GAPDH. (C) Representative images showing cell migration (top two panels) and cell invasion (bottom two panels) of SNU638 cells transfected with siCon or siELK3. Scale bar, 200  $\mu\text{m}$ . Bar graphs indicate the number of migrated and invaded cells, respectively. Error bars represent the standard deviation; \*  $p < 0.05$  and \*\*  $p < 0.01$  (student's t-test). (D) Epithelial marker (E-cadherin), mesenchymal marker (Fibronectin), and ELK3 protein expression in SNU638 cells transfected with siCon or siELK3. Bar graphs indicate the quantified levels of each protein, in relative scales. Error bars represent the standard deviation; \*\*  $p < 0.01$  (student's t-test). ELK3, ETS transcription factor ELK3; si, small interfering RNA; Con, control. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35409069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Huang H, Li X, Luo J et al. FTO regulates ELK3-mediated metabolic rewiring and represents a unique therapeutic target in T cell leukemia *Science Advances* 2025-05-30 [PMID: 40435251]

Lee CJ, Lee H, Kim SR et Al. ELK3 destabilization by speckle-type POZ protein suppresses prostate cancer progression and docetaxel resistance *Cell Death Dis* 2024-04-17 [PMID: 38632244]

Jung HY, Lee DK, Lee M et al. ELK3-CXCL16 axis determines natural killer cell cytotoxicity via the chemotactic activity of CXCL16 in triple negative breast cancer *Oncoimmunology* 2023-03-17 [PMID: 36950218] (WB, Human)

Lee M, Cho HJ, Park KS, Jung HY ELK3 Controls Gastric Cancer Cell Migration and Invasion by Regulating ECM Remodeling-Related Genes *International journal of molecular sciences* 2022-03-28 [PMID: 35409069] (WB, Human)

Kim HK, Park JD, Choi SH et al. Functional Link between miR-200a and ELK3 Regulates the Metastatic Nature of Breast Cancer *Cancers (Basel)* 2020-05-13 [PMID: 32414208] (WB, Human)

Kim KS, Kim J, Oh N et al. ELK3-GATA3 axis modulates MDA-MB-231 metastasis by regulating cell-cell adhesion-related genes. *Biochem. Biophys. Res. Commun.* 2018-04-06 [PMID: 29510139] (Human)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
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**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-01264**

---

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-01264](http://www.novusbio.com/reviews/submit/NBP2-01264)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

