

# Product Datasheet

## Teneurin-1 Antibody - BSA Free NBP2-41315

Unit Size: 0.1 mg

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

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

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**NBP2-41315**

Teneurin-1 Antibody - BSA Free

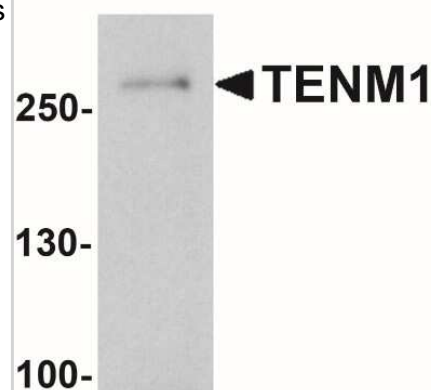
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	280 kDa

Product Description	
Host	Rabbit
Gene ID	10178
Gene Symbol	TENM1
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Chicken: (83%)
Specificity/Sensitivity	TENM1 antibody is predicted to not cross-react with other members of the TENM family.
Immunogen	Antibody was raised against an 18 amino acid peptide near the amino terminus of human TENM1. The immunogen is located within the first 50 amino acids of TENM1. Amino Acid Squence: SDESEDGRKPRQSFNSRE

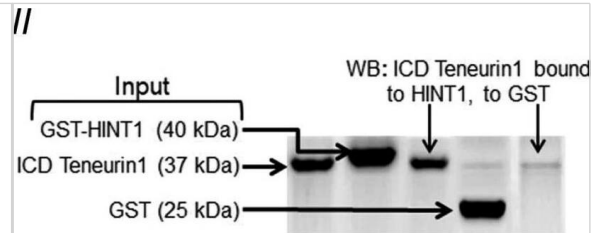
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 - 2 ug/mL, ELISA, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 5 ug/ml

**Images**

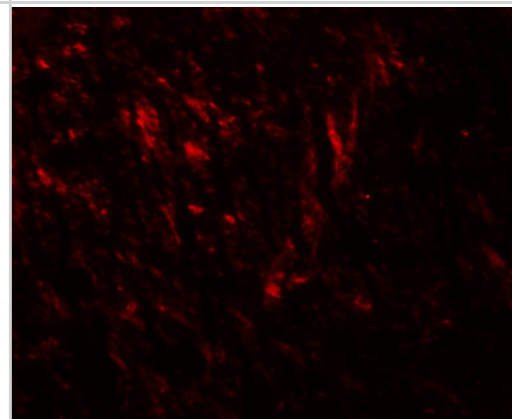
Western Blot: Teneurin-1 Antibody [NBP2-41315] - Western blot analysis of TENM1 in human brain tissue lysate with TENM1 antibody at 1 ug/ml.



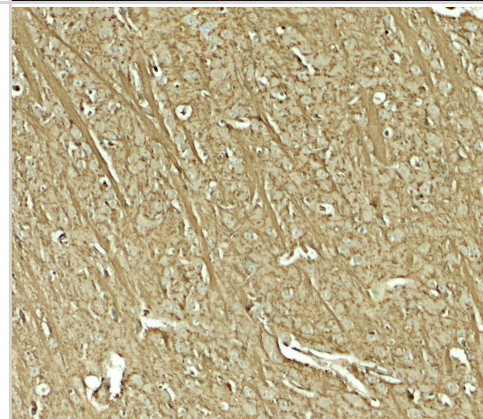
**Immunoprecipitation: Teneurin-1 Antibody - BSA Free [NBP2-41315] - HINT1 exhibits isopeptidase activity.** (A) HINT1 interactions with the proteins used in the study. (I) HINT1 but not its paralogs forms stable complexes with RGSZ2 proteins. (II) ICD teneurin1 interacts with HINT1 but not with GST. (III, IV) HINT1 associations with RanGAP1 & SP100 were weak or not detected. (B) HINT1 exhibits SUMO protease activity on sumoylated RanGAP1, which is regulated by calcium & CaM. (I) HINT1 (2  $\mu$ M) but not SENP2 (0.3  $\mu$ M) requires calcium-activated CaM (6  $\mu$ M) to exhibit sumoylase activity. (II) Removal of 10 mM MgCl<sub>2</sub> from the sumoylation buffer greatly improves Ca<sup>2+</sup>-CaM-dependent HINT1 isopeptidase activity on sumoylated RanGAP1. (III, IV) HINT1 exhibits isopeptidase activity on sumoylated RanGAP1 in the presence of increasing concentrations of CaCl<sub>2</sub> & of CaM. Details of immunoblot detection in "Materials & Methods" section & Supplementary Figures S5 & S6. GST, glutathione S-transferase; ICD, intracellular domain; RanGAP1, Ran GTPase-activating protein 1; RGSZ2, regulator of G protein signaling 17 (Z2); SENP, sentrin-specific protease. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31088288>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



**Immunocytochemistry/ Immunofluorescence: Teneurin-1 Antibody - BSA Free [NBP2-41315] - Immunofluorescence of Teneurin-1 in mouse brain tissue with Teneurin-1 antibody at 20 u/mL.**



**Immunohistochemistry: Teneurin-1 Antibody - BSA Free [NBP2-41315] - Immunohistochemistry of Teneurin-1 in mouse brain tissue with Teneurin-1 antibody at 5 ug/mL.**



## Publications

Cortes-Montero E, Rodriguez-Munoz M, Sanchez-Blazquez P, and Garzon J. The axonal motor neuropathy-related HINT1 protein is a zinc- and calmodulin-regulated cysteine SUMO protease Antioxid. Redox Signal. 2019-05-15 [PMID: 31088288] (WB, 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

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00010178-Q01-10ug	Recombinant Human Teneurin-1 GST (N-Term) Protein

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### **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.

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