

# Product Datasheet

## TMEM103 Antibody - BSA Free NBP1-91733

Unit Size: 0.1 ml

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

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



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### Publications: 1

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**NBP1-91733**

TMEM103 Antibody - BSA Free

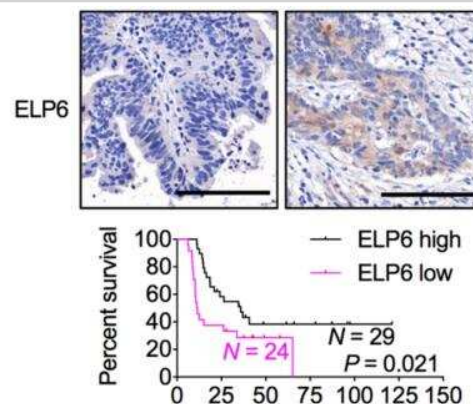
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit TMEM103 Antibody - BSA Free (NBP1-91733) is a polyclonal antibody validated for use in IHC and WB. Anti-TMEM103 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	54859
Gene Symbol	ELP6
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: VCWELKGNMVLVHDSGDAEDEENDILLNGLSHQSHLILRAEGLATGFCRDVH GQLRILWRRPSQPAVHRDQ

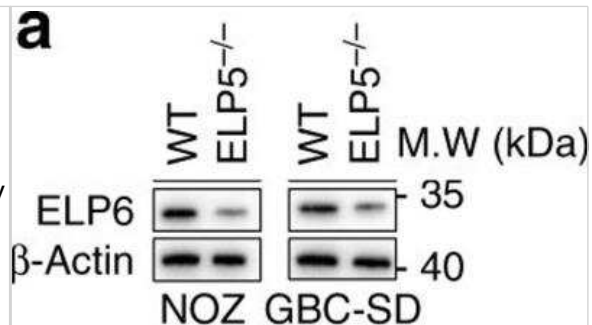
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

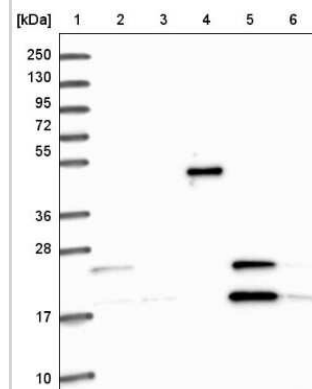
Immunohistochemistry: TMEM103 Antibody [NBP1-91733] - Low expression levels of ELP6 was highly associated with poor overall survivals in GBC patients. Scale bars = 100 um. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-019-13420-x>) licensed under a CC-BY license.



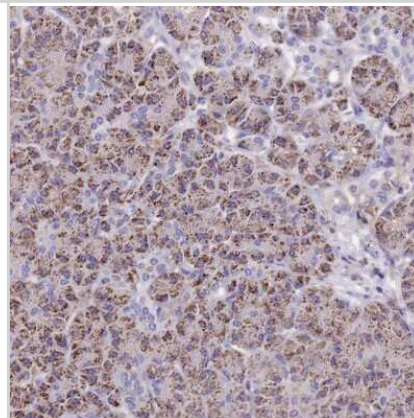
Western Blot: TMEM103 Antibody [NBP1-91733] - The integrity and stability of the Elongator complex are required for gemcitabine-induced cytotoxic effects in GBC cells. a ELP5 depletion significantly downregulated the protein levels of other Elongator subunits, including ELP1, ELP2, ELP3, ELP4, ELP6. b ELP5 depletion significantly decreased ATPase activity in NOZ cells. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-019-13420-x>) licensed under a CC-BY license.



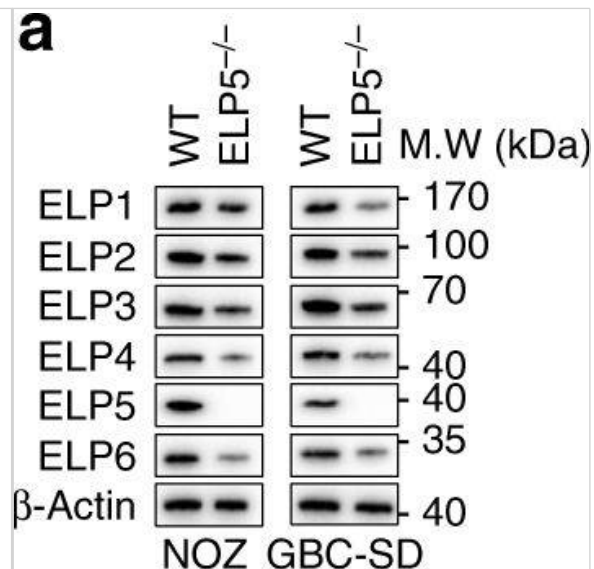
Western Blot: C3orf75/ELP6 Antibody [NBP1-91733] - Lane 1: Marker [kDa] 250, 130, 95, 72, 55, 36, 28, 17, 10. Lane 2: Human cell line RT-4. Lane 3: Human cell line U-251MG sp. Lane 4: Human plasma (IgG/HSA depleted). Lane 5: Human liver tissue. Lane 6: Human tonsil tissue



Immunohistochemistry-Paraffin: C3orf75/ELP6 Antibody [NBP1-91733] - Staining of human pancreas shows distinct granular cytoplasmic positivity in exocrine glandular cells.



Western Blot: TMEM103 Antibody [NBP1-91733] - The integrity & stability of the Elongator complex are required for gemcitabine-induced cytotoxic effects in GBC cells. a ELP5 depletion significantly downregulated the protein levels of other Elongator subunits, including ELP1, ELP2, ELP3, ELP4, ELP6. b ELP5 depletion significantly decreased ATPase activity in NOZ cells. c The abundance of thiolated tEUUC tRNA was decreased in ELP5-depleted NOZ cells. d Ectopically expressed ELP5 could interact with ELP3 & ELP4 in GBC cells. e Endogenous ELP3 & ELP4 degraded rapidly after treatment with 50  $\mu\text{g ml}^{-1}$  cycloheximide (CHX) in ELP5-depleted GBC cells compared with WT cells. f-h Ectopically expressed ELP5 (f) could promote or rescue thiolated tRNA abundance (g) & GEM sensitivity (h) in WT & ELP5-depleted GBC cells, but ectopically expressed ELP3 or ELP4 (f) could only increase the abundance of thiolated tRNA (g) & GEM sensitivity (h) in WT cells, not in ELP5-depleted cells. i, j Mutation of the ATPase activity site residue within ELP5 (D124A) (i) could not promote GEM sensitivity in GBC cells (j). k, l Mutation of the cm5U catalytic activity site residue with ELP3 (C109/112 S) (k) could not promote GEM sensitivity in GBC cells (l). Data represent the mean  $\pm$  S.D., n = 3 independent experiments in b, h, j, l, error bars represent S.D. Unpaired Student's t-tests were used in b, h (NS, non-significant, \*\*P < 0.01 & \*\*\*P < 0.001). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31792210>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Xu S, Zhan M, Jiang C Genome-wide CRISPR screen identifies ELP5 as a determinant of gemcitabine sensitivity in gallbladder cancer Nat Commun 2019-12-02 [PMID: 31792210] (WB, IF/IHC, Human)



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### **Products Related to NBP1-91733**

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NBP1-91733PEP	TMEM103 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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