

# Product Datasheet

## EDEM2 Antibody - BSA Free NBP2-37921

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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**NBP2-37921**

EDEM2 Antibody - BSA Free

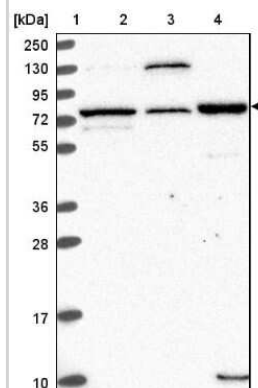
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal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

Product Description	
<b>Description</b>	Novus Biologicals Rabbit EDEM2 Antibody - BSA Free (NBP2-37921) is a polyclonal antibody validated for use in IHC and WB. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	55741
<b>Gene Symbol</b>	EDEM2
<b>Species</b>	Human
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (80%), Rat (84%)
<b>Immunogen</b>	This antibody was developed against a recombinant protein corresponding to amino acids: FDPTNFIHNGSTFDVAITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQ WEVEDLMREFYSLKRSRSKFQKNTVSSGPWEPPARPGTLFSP

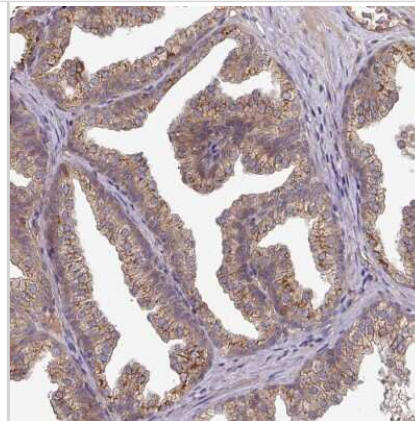
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

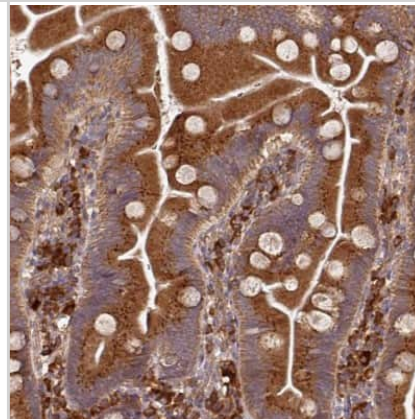
Western Blot: EDEM2 Antibody [NBP2-37921] - Lane 1: Marker [kDa] 250, 130, 95, 72, 55, 36, 28, 17, 10. Lane 2: Human cell line RT-4. Lane 3: Human cell line U-251MG. Lane 4: Human Plasma



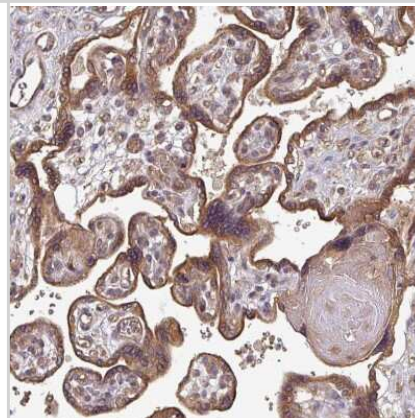
Immunohistochemistry-Paraffin: EDEM2 Antibody [NBP2-37921] - Staining of human prostate shows moderate granular cytoplasmic positivity in glandular cells.



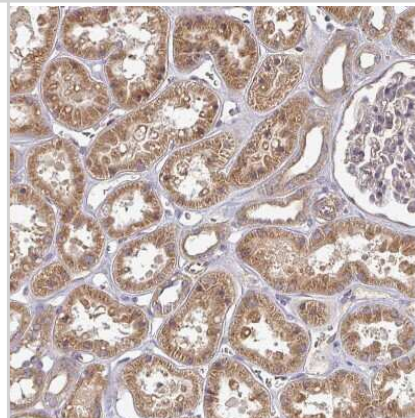
Immunohistochemistry-Paraffin: EDEM2 Antibody [NBP2-37921] - Staining of human small intestine shows strong cytoplasmic positivity in glandular cells.



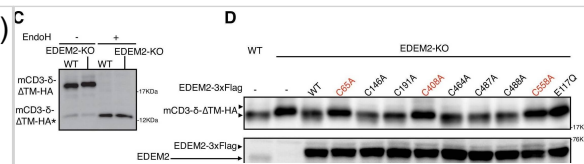
Immunohistochemistry-Paraffin: EDEM2 Antibody [NBP2-37921] - Staining of human placenta shows strong granular cytoplasmic positivity in trophoblastic cells.



Immunohistochemistry-Paraffin: EDEM2 Antibody [NBP2-37921] - Staining of human kidney shows moderate granular cytoplasmic positivity in cells in tubules.



Effect of mutation of various cysteine residues in EDEM2 on gpERAD. (A) Structure of Glc3Man9GlcNAc2 is schematically shown. Mannose residues are  $\alpha$ 1,2-bonded or  $\alpha$ 1,6-bonded as indicated. (B) Structures of human EDEM2 and yeast Htm1p are schematically shown with cysteine residues (C) highlighted together with their positions (black bars underneath C indicate conserved cysteine residues, whereas white bars over C indicate non-conserved cysteine residues). The purple and yellow boxes denote the signal sequence and mannosidase homology domain (MHD), respectively. Sequence comparison around the four cysteine residues conserved between EDEM2 and Htm1p (marked in red color) is shown below (asterisk and colon indicate identical and similar amino acids, respectively). (C) Cell lysates were prepared from WT and EDEM2-KO cells expressing mCD3- $\delta$ - $\Delta$ TM-HA by transfection, treated with (+) or without (-) EndoH, and analyzed by immunoblotting using anti-HA antibody. mCD3- $\delta$ - $\Delta$ TM-HA\* denotes deglycosylated mCD3- $\delta$ - $\Delta$ TM-HA. (D) Cell lysates were prepared from WT and EDEM2-KO cells expressing WT or one of various cysteine mutants of 3x Flag-tagged EDEM2 together with mCD3- $\delta$ - $\Delta$ TM-HA by transfection, and analyzed by immunoblotting using anti-HA and anti-EDEM2 antibodies. E117Q is an enzymatically inactive mutant of EDEM2. (E) Cycloheximide chase was conducted to determine the degradation rate of mCD3- $\delta$ - $\Delta$ TM-HA in WT and EDEM2-KO cells expressing WT or one of the three cysteine mutants of 3x Flag-tagged EDEM2 by transfection, and analyzed by immunoblotting using anti-HA antibody (n = 3). Quantified data are shown on the right. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32065582>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





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### **Products Related to NBP2-37921**

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NBP2-37921PEP	EDEM2 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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