

Product Datasheet

PMPCA Antibody - BSA Free

NBP1-89126

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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Publications: 4

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NBP1-89126

PMPCA 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 PMPCA Antibody - BSA Free (NBP1-89126) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-PMPCA Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23203
Gene Symbol	PMPCA
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (89%)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: VEHEHLVDCARKYLLGVQPAWGSAEAVDIDRSVAQYTGGIAKLERDMSNVSLG PTPIPELTHIMVGLSCSFLEEDFIPFAVLNMMMGGGGSFSAGGPGKGMFSR

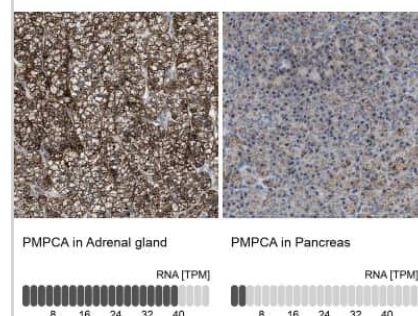
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

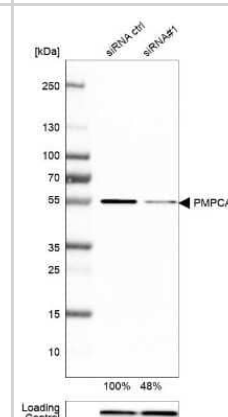


Images

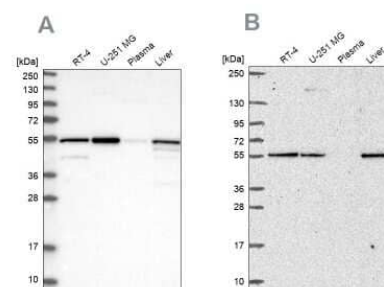
Immunohistochemistry-Paraffin: PMPCA Antibody [NBP1-89126] - Staining in human adrenal gland and pancreas tissues using anti-PMPCA antibody. Corresponding PMPCA RNA-seq data are presented for the same tissues.



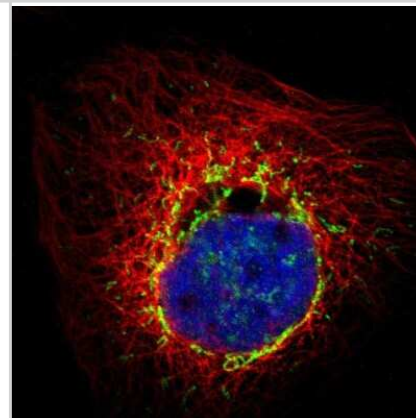
Western Blot: PMPCA Antibody [NBP1-89126] - Analysis in HEK293 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-PMPCA antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



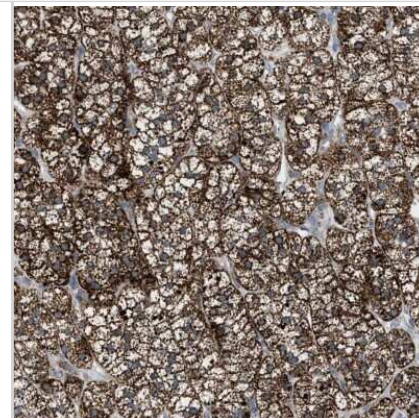
Western Blot: PMPCA Antibody [NBP1-89126] - Analysis using Anti-PMPCA antibody NBP1-89126 (A) shows similar pattern to independent antibody NBP2-57169 (B).



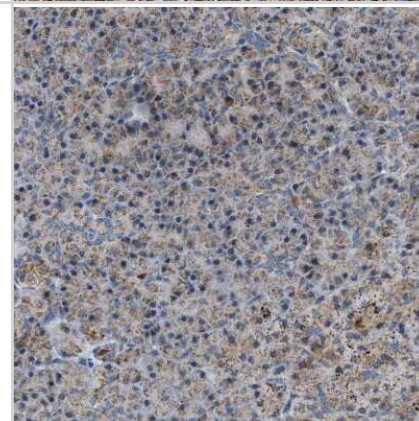
Immunocytochemistry/Immunofluorescence: PMPCA Antibody [NBP1-89126] - Immunofluorescent staining of human cell line A-431 shows localization to mitochondria. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: PMPCA Antibody [NBP1-89126] - Staining of human adrenal gland shows high expression.



Immunohistochemistry-Paraffin: PMPCA Antibody [NBP1-89126] - Staining of human pancreas shows low expression as expected.



Publications

Vibhuti Rambani, Miriam Kolnikova, Michal Cagalinec, Martina Skopkova, Daniela Gasperikova PMPCA-Related Encephalopathy Neurology: Genetics 2023-12-01 [PMID: 38235041]

Charif M, Chevrollier A, Gueguen N et al. Next-Generation Sequencing Identifies Novel PMPCA Variants in Patients with Late-Onset Dominant Optic Atrophy Genes 2022-07-05 [PMID: 35885985]

Joshi M, Anselm I, Shi J, Bale T et al. Mutations in the substrate binding glycine-rich loop of the mitochondrial processing peptidase-alpha protein (PMPCA) cause a severe mitochondrial disease Molecular Case Studies 1905-07-08 [PMID: 27148589] (WB, ICC/IF, Human)

Jobling RK, Assoum M, Gakh O et al. PMPCA mutations cause abnormal mitochondrial protein processing in patients with non-progressive cerebellar ataxia. Brain. 2015-03-25 [PMID: 25808372] (ICC/IF, Human)



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Products Related to NBP1-89126

NBP1-89126PEP	PMPCA 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

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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