

Product Datasheet

P4HA1 Antibody - BSA Free NBP1-84398

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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NBP1-84398

P4HA1 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 P4HA1 Antibody - BSA Free (NBP1-84398) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-P4HA1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5033
Gene Symbol	P4HA1
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DYYHTELWMEQALRQLDEGEISTIDKVSVDYLSYAVYQQGDLDKALLLTKLL ELDPEHQQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTTPKKKGVAVDYLPE RQKYEMLCRGEGIKMTPRRQKLLFCRYHDGNRNPK

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100.

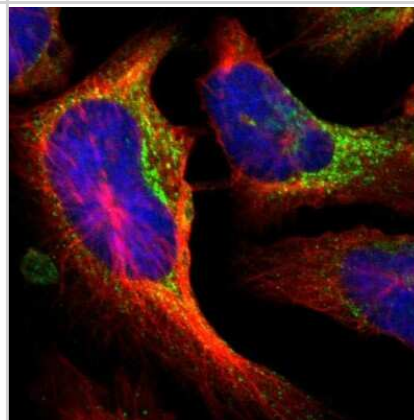


Images

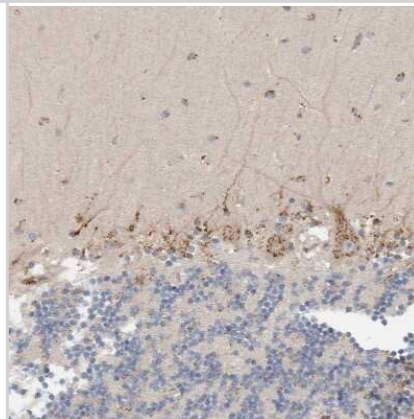
Immunohistochemistry-Paraffin: P4HA1 Antibody [NBP1-84398] - Staining in human placenta and pancreas tissues using NBP1-84398 antibody. Corresponding P4HA1 RNA-seq data are presented for the same tissues.



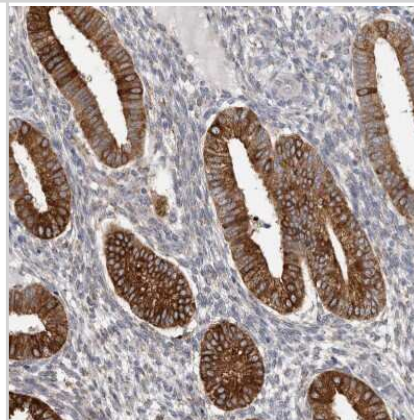
Immunocytochemistry/Immunofluorescence: P4HA1 Antibody [NBP1-84398] - Staining of human cell line U-2 OS shows localization to endoplasmic reticulum & vesicles. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: P4HA1 Antibody [NBP1-84398] - Staining of human cerebellum shows moderate granular cytoplasmic positivity in Purkinje cells.



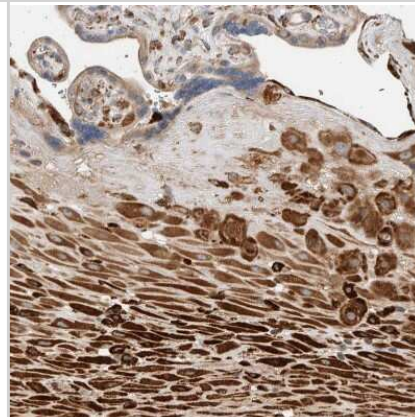
Immunohistochemistry-Paraffin: P4HA1 Antibody [NBP1-84398] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



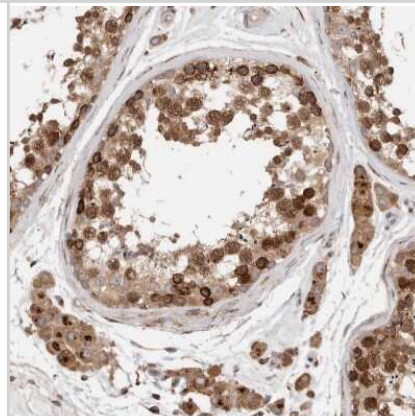
Immunohistochemistry-Paraffin: P4HA1 Antibody [NBP1-84398] - Staining of human pancreas shows very weak positivity in exocrine glandular cells as expected.



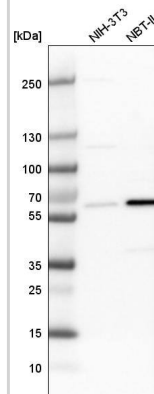
Immunohistochemistry-Paraffin: P4HA1 Antibody [NBP1-84398] - Staining of human placenta shows strong cytoplasmic positivity in decidual cells.



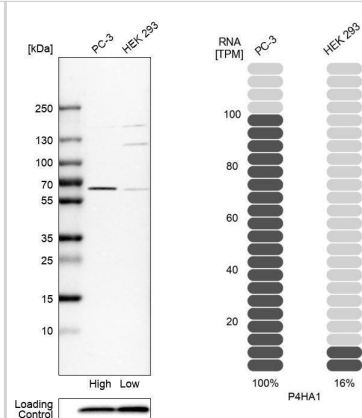
Immunohistochemistry-Paraffin: P4HA1 Antibody [NBP1-84398] - Staining of human testis shows moderate to strong granular cytoplasmic positivity in cells in seminiferous ducts.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



Analysis in human cell lines PC-3 and HEK293 using Anti-P4HA1 antibody. Corresponding P4HA1 RNA-seq data are presented for the same cell lines. Loading control: Anti-PFN1.



Publications

Bhute V, Harte J, Houghton J, Maxwell P Mannose binding lectin is hydroxylated by collagen prolyl-4-hydroxylase and inhibited by some PHD inhibitors *Kidney360* 2022-04-04 [PMID: 35368589] (Western Blot, Immunohistochemistry-Paraffin, Human)

Tian P, Koudis NM, Morais MRPT, Pickard A et Al. Collagen IV assembly is influenced by fluid flow in kidney cell-derived matrices *Cells Dev* 2024-04-26 [PMID: 38670459]

Tian P, Koudis N, Morais M et al. Collagen IV Assembly is Influenced by Fluid Flow in Kidney Cell-Derived Matrices *SSRN* 2023-11-03 (WB, Human)

Details:

Dilution 0.12 ?g/ml

Duatti A Lactate-induced COL1A1/DDR1 axis promotes prostate cancer aggressiveness and enhances metastatic colonization *Thesis* 2023-01-01 (WB)

Kaluz S, Zhang Q, Kuranaga Y Et Al. Targeting HIF-activated collagen prolyl 4-hydroxylase expression disrupts collagen deposition and blocks primary and metastatic uveal melanoma growth *Oncogene* 2021-07-03 [PMID: 34218269] (WB)

Liu Y, Gu Y, Ng S Et Al. Circulating levels of hydroxylated bradykinin function as an indicator of tissue HIF-1 alpha expression *Science Bulletin* 2020-01-01 [PMID: 36738075] (WB, EA, Human)

Morimoto C, Takedachi M, Kawasaki K et al. Hypoxia stimulates collagen hydroxylation in gingival fibroblasts and periodontal ligament cells *Journal of periodontology* 2021-03-04 [PMID: 33660864]

Eriksson J, Le Joncour V, Jahkola T et al. Prolyl 4-hydroxylase subunit alpha 1 (P4HA1) is a biomarker of poor prognosis in primary melanomas, and its depletion inhibits melanoma cell invasion and disrupts tumor blood vessel walls *Mol Oncol* 2020-04-01 [PMID: 32053263] (WB, IHC-P, Human)

Liu Y, Gu Y, Ng S et al. Circulating levels of hydroxylated bradykinin function as an indicator of tissue HIF-1alpha expression *Science Bulletin* 2020-01-01 (IHC-P, WB, Human)

Bhute V, Harte J, Houghton J, Maxwell P Mannose binding lectin is hydroxylated by collagen prolyl-4-hydroxylase and inhibited by some PHD inhibitors *Kidney360* Apr 3 2020 12:00AM (WB, Human)



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Products Related to NBP1-84398

NBP1-84398PEP	P4HA1 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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