

Product Datasheet

P4HA1 Antibody NB100-57852

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-57852

P4HA1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	61 kDa

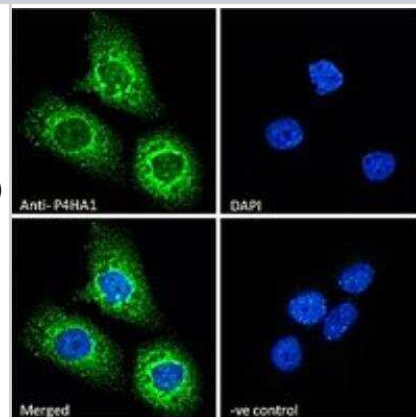
Product Description	
Host	Goat
Gene ID	5033
Gene Symbol	P4HA1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24993042).
Specificity/Sensitivity	This antibody is expected to recognize both reported isoforms (NP_000908.2 and NP_001017962.1).
Immunogen	This P4HA1 Antibody was developed against a peptide with sequence C-DFARKDEPDAFKE corresponding to internal region according to NP_001017962.1.

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Immunohistochemistry 7 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 7 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	IHC-P usage reported in scientific literature (PMID: 25587023).

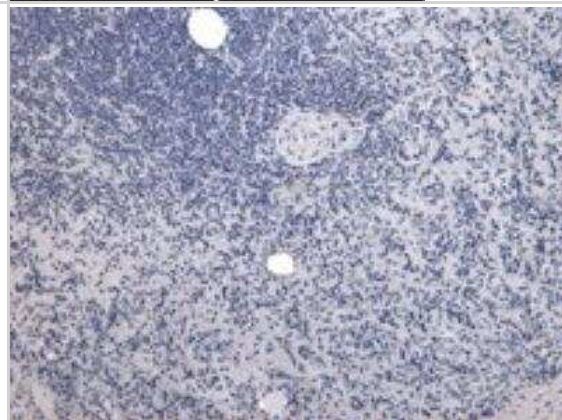


Images

Immunocytochemistry/Immunofluorescence: P4HA1 Antibody [NB100-57852] - Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Immunohistochemistry-Paraffin: P4HA1 Antibody [NB100-57852] - Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.



Immunohistochemistry-Paraffin: P4HA1 Antibody [NB100-57852] - Staining of paraffin embedded Human Spleen with antibody at 7 ug/mL. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Publications

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, Human)

Cowling RT, Yeo SJ, Kim IJ et al. Discoidin domain receptor 2 germline gene deletion leads to altered heart structure and function in the mouse *Am J Physiol Heart Circ Physiol*. 2014-07-02 [PMID: 24993042] (WB, Mouse)

Islam A, Fossum V, Hansen AK et al. In vitro chondrogenic potency of surplus chondrocytes from autologous transplantation procedures does not predict short-term clinical outcomes. *BMC Musculoskelet Disord* 2019-01-10 [PMID: 30630436] (WB, Human)

Annunen P, Helaakoski T, Myllyharju J et al. Cloning of the human prolyl 4-hydroxylase alpha subunit isoform alpha (II) and characterization of the type II enzyme tetramer. The alpha(I) and alpha(II) subunits do not form a mixed alpha (I)alpha(II)beta2 tetramer. *J Biol Chem* 1997-07-11 [PMID: 9211872]

Van Duyn Graham L, Sweetwyne MT, Pallero MA, Murphy-Ullrich JE. Intracellular calreticulin regulates multiple steps in fibrillar collagen expression, trafficking, and processing into the extracellular matrix. *J Biol Chem* 2010-03-05 [PMID: 20044481]

Xiang L, Gilkes DM, Hu H et al. Hypoxia-inducible factor 1 mediates TAZ expression and nuclear localization to induce the breast cancer stem cell phenotype. *Oncotarget*. 2014-01-01 [PMID: 25587023] (IHC-P, Human)

Xiang L, Gilkes DM, Chaturvedi P et al. Ganetespib blocks HIF-1 activity and inhibits tumor growth, vascularization, stem cell maintenance, invasion, and metastasis in orthotopic mouse models of triple-negative breast cancer. *J Mol Med (Berl)*. 2013-11-20 [PMID: 24248265]

Gilkes DM, Chaturvedi P, Bajpai S et al. Collagen prolyl hydroxylases are essential for breast cancer metastasis. *Cancer Res* 2013-06-01 [PMID: 23539444] (WB, Human)

Gilkes DM, Bajpai S, Chaturvedi P et al. HIF-1 Promotes Extracellular Matrix Remodeling under Hypoxic Conditions by Inducing P4HA1, P4HA2, and PLOD2 Expression in Fibroblasts. *J Biol Chem* 2013-02-19 [PMID: 23423382] (WB, Human)





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Products Related to NB100-57852

NB800-PC6	293 Whole Cell Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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