

Product Datasheet

PHD4/HIF Prolyl Hydroxylase 4 Antibody - BSA Free NB100-295

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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Updated 2/21/2025 v.20.1

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NB100-295**PHD4/HIF Prolyl Hydroxylase 4 Antibody - BSA Free**

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	50 kDa

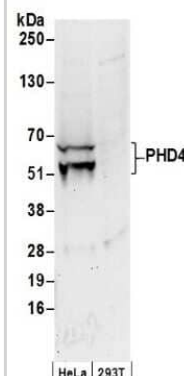
Product Description	
Host	Rabbit
Gene ID	54681
Gene Symbol	P4HTM
Species	Human, Rat, Mouse (Negative)
Reactivity Notes	Does not appear to work in Mouse. Rat reactivity reported in scientific literature (PMID: 17003483)
Immunogen	The epitope recognized by this antibody maps to a region between residue 450 and the C-terminus (residue 502) of human PHD4/HIF Prolyl Hydroxylase 4 using the numbering given in entry NP_808808.1 (GenelD 54681).

Product Application Details	
Applications	Western Blot, Electron Microscopy, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2500, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Electron Microscopy
Application Notes	This PHD4/HIF Prolyl Hydroxylase 4 antibody is useful for Western Blot where a band is seen at ~50 kDa. Use in Immunocytochemistry/immunofluorescence, Immunohistochemistry-Paraffin and Electron Microscopy reported in scientific literature (PMID 17003483) The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

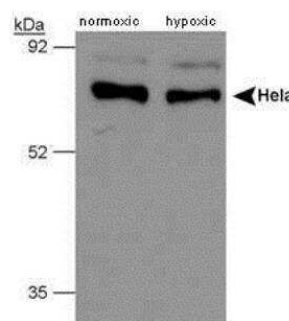


Images

Western Blot: PHD4/HIF Prolyl Hydroxylase 4 Antibody [NB100-295] - Samples: Whole cell lysate (50 ug) from HeLa and 293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-PHD4 antibody used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot: PHD4/HIF Prolyl Hydroxylase 4 Antibody [NB100-295] - Analysis of human PHD4, using NB100-295. Samples: whole cell lysate from HeLa cells, normoxic and hypoxic, respectively.



Western Blot: PHD4/HIF Prolyl Hydroxylase 4 Antibody [NB100-295] - Whole cell lysate (25 mcg/lane) from human glioblastoma tumor cell lines or in vitro translated PHD4. Antibody: Affinity purified rabbit anti-PHD4 (Cat. No. NB100-295) used at 2 mcg/ml. Detection: Chemiluminescence



Publications

Khan Z, Michalopoulos GK, Stolz DB. Peroxisomal localization of hypoxia-inducible factors and hypoxia-inducible factor regulatory hydroxylases in primary rat hepatocytes exposed to hypoxia-reoxygenation. *Am J Pathol* 2006-10-01 [PMID: 17003483] (IHC-P, WB, ICC/IF, EM, Rat)

Klotzsche-von Ameln A, Prade I, Grosser M et al. Prolyl hydroxylase-4 overexpression stimulates tumor angiogenesis in mouse osteosarcoma via transforming growth factor-alpha. *Mol Cancer Res*. 2013-09-18 [PMID: 24048703] (WB, Human)

Henze AT, Riedel J, Diem T et al. Prolyl hydroxylases 2 and 3 act in gliomas as protective negative feedback regulators of hypoxia-inducible factors. *Cancer Res*;70(1):357-66. 2010-01-01 [PMID: 20028863]



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Products Related to NB100-295

NBP3-11858	PC12 CoCl ₂ treated/Untreated Cell Lysate
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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