Product Datasheet

EGLN2/PHD1 Antibody
NB100-310

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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Reviews: 3 Publications: 47

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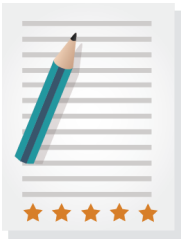
Updated 12/20/2023 v.20.1



NB100-310

EGLN2/PHD1 Antibody

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	48 kDa

Product Description	
Host	Rabbit
Gene ID	112398
Gene Symbol	EGLN2
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 17003483).
Immunogen	The epitope maps to a region between residue 350 and the C-terminus (residue 407) of human PHD1/HIF Prolyl Hydroxylase 1 using the numbering given in entry NP_444274.1 (GeneID 112398).

Product Application Details	
Applications	Western Blot, Simple Western, Electron Microscopy, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500 -1:2500, Simple Western 1:50, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin, Electron Microscopy
Application Notes	This PHD1/HIF Prolyl Hydroxylase 1 antibody is useful for Immunocytochemistry/Immunofluorescence, Immunoprecipitation, Immunohistochemistry and Western Blot. In WB a band is seen at 45-50 kDa. In ICC/IF, cytoplasmic and nuclear staining was observed in HeLa cells. IP (PMID: 21282188). IHC (PMID 21877141). Use in Immunohistochemistry-Paraffin and Electron Microscopy reported in scientific literature (PMID 17003483) In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. 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.

Publications

Melling N, Reeh M, Ghadban T et al. RAI3 expression is not associated with clinical outcomes of patients with non-small cell lung cancer Research Square 2023-01-23 [PMID: 36781501]

Kozlova N, Mennerich D, Samoylenko A et al. The pro-oncogenic adaptor CIN85 inhibits hypoxia-inducible factor prolyl hydroxylase-2. Cancer Res 2019-05-31 [PMID: 31142511]

Meng X, Lin Z, Cao S et al. Estrogen-mediated downregulation of HIF-1 alpha signaling in B lymphocytes influences postmenopausal bone loss Bone research 2022-02-17 [PMID: 35177582] (WB)

van Kuijk K, Demandt JAF, Perales-PatOn J et al. DEFICIENCY OF MYELOID PHD PROTEINS AGGRAVATES ATHEROGENESIS VIA MACROPHAGE APOPTOSIS AND PARACRINE FIBROTIC SIGNALING: Atherogenic effects of myeloid PHD knockdown Cardiovascular research 2021-04-26 [PMID: 33913468] (IF/IHC, Human)

Shi M, Dai WQ, Jia RR et al. APCCDC20-mediated degradation of PHD3 stabilizes HIF-1a and promotes tumorigenesis in hepatocellular carcinoma Cancer Lett 2020-10-09 [PMID: 33039559] (WB, IP, Mouse)

Zurlo G, Liu X, Takada M et al. Prolyl hydroxylase substrate adenylosuccinate lyase is an oncogenic driver in triple negative breast cancer Nat Commun. 2019-11-15 [PMID: 31729379] (WB, Human)

El Gammal AT, Melling N, Reeh M et al. High levels of RAI3 expression is linked to shortened survival in esophageal cancer patients Exp. Mol. Pathol. 2019-01-29 [PMID: 30707896] (IHC-P, Human)

Zhang J, Wang C, Chen X et al. EglN2 associates with the NRF1-PGC1alpha complex and controls mitochondrial function in breast cancer. EMBO J 2015-12-02 [PMID: 26492917] (WB, Human)

Takada M, Zhuang M, Inuzuka H et al. EglN2 contributes to triple negative breast tumorigenesis by functioning as a substrate for the FBW7 tumor suppressor. Oncotarget. 2017-01-24 [PMID: 28036276] (WB, Human)

Zhang L, Peng S, Dai X et al. Tumor suppressor SPOP ubiquitinates and degrades EglN2 to compromise growth of prostate cancer cells Cancer Lett 2017-01-13 [PMID: 28089830]

Deschoemaeker S, Di Conza G, Lilla S et al. PHD1 regulates p53-mediated colorectal cancer chemoresistance. EMBO Mol Med. 2015-08-19 [PMID: 26290450] (WB, Human)

Hogel H, Miikkulainen P, Bino L, Jaakkola PM. Hypoxia inducible prolyl hydroxylase PHD3 maintains carcinoma cell growth by decreasing the stability of p27. Mol. Cancer. 2015-07-30 [PMID: 26223520] (WB, Human)

Details:
PHD1 antibody used for WB on 786-O cell under hypoxia (1% O2) and normoxia (21 % O2) by siPHD1 (Figure 1C).

More publications at http://www.novusbio.com/NB100-310

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