Product Datasheet

EGLN1/PHD2 Antibody
NB100-138

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Reviews: 1 Publications: 15

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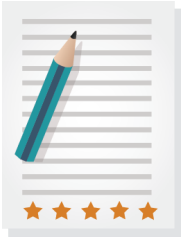
Updated 4/15/2024 v.20.1



NB100-138

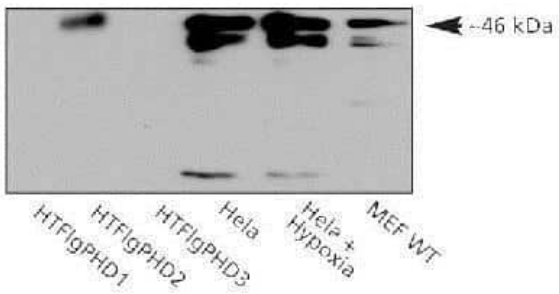
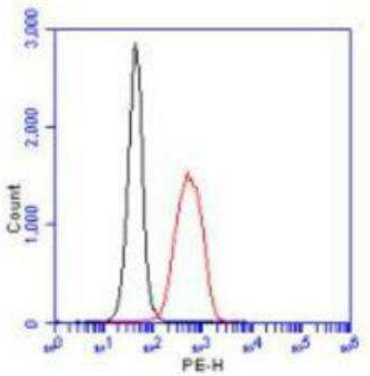
EGLN1/PHD2 Antibody

Product Information	
Unit Size	0.1 ml
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 - 8)
Target Molecular Weight	46 kDa

Product Description	
Host	Rabbit
Gene ID	54583
Gene Symbol	EGLN1
Species	Human, Rat, Mouse (Negative)
Reactivity Notes	Does not appear to work in mouse. Rat reactivity reported in scientific literature (PMID: 17003483).
Immunogen	This EGLN1/PHD2 antibody was developed against a synthetic peptide corresponding to a C-terminal portion of human PHD2/HIF Prolyl Hydroxylase 2 (between amino acids 350-426) (GeneID 54583).

Product Application Details	
Applications	Western Blot, Electron Microscopy, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:500 - 1:2500, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Electron Microscopy, Knockdown Validated
Application Notes	This PHD2/HIF Prolyl Hydroxylase 2 antibody is useful for Flow Cytometry and Western blot, where a band can be seen at 46-50 kDa. Immunoprecipitation and Immunohistochemistry were reported in scientific literature. 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: EGLN1/PHD2 Antibody [NB100-138] - Analysis of human PHD2, using NB100-138. Samples: Recombinant FLAG-His-PHD1, PHD2 and PHD3 (10 ng/lane), HeLa whole cell lysate and MEFs.	
Flow Cytometry: EGLN1/PHD2 Antibody [NB100-138] - Flow cytometric detection of PHD2, 10^6 Jurkat cells were fixed, permeabilized, and stained with 3.0 ug/mL anti-PHD2 in a 150 uL reaction.	

Publications

Bur H, Haapasaari K M et al. Strong Prolyl Hydroxylase Domain 1 Expression Predicts Poor Outcome in Radiotherapy-treated Patients with Classical Hodgkin's Lymphoma. Anticancer Res 2018-01-01 [PMID: 29277791] (IF/IHC, Human)

Tan J, Prosser H, Dunn L et al. High-Density Lipoproteins Rescue Diabetes-Impaired Angiogenesis via Scavenger Receptor Class B Type I. Diabetes 1905-07-08 [PMID: 27284113]

Mikheyev AS, Vo T, Wee B et al. Rapid microsatellite isolation from a butterfly by de novo transcriptome sequencing: performance and a comparison with AFLP-derived distances. PLoS One 2010-01-01 [PMID: 20585453]

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, ICC/IF, EM, WB, Rat)

Serra-Perez A, Planas AM, Nunez-O'Mara A et al. Extended ischemia prevents HIF1alpha degradation at reoxygenation by impairing prolyl-hydroxylation: role of Krebs cycle metabolites. J Biol Chem 2010-06-11 [PMID: 20368331] (WB, Human)

Steinhoff A, Pientka FK, Mockel S et al. Cellular oxygen sensing: Importins and exportins are mediators of intracellular localisation of prolyl-4-hydroxylases PHD1 and PHD2. Biochem Biophys Res Commun 2009-10-02 [PMID: 19631610] (IP, Human)

Sakamoto T, Seiki M. Mint3 Enhances the Activity of Hypoxia-inducible Factor-1 (HIF-1) in Macrophages by Suppressing the Activity of Factor Inhibiting HIF-1. J Biol Chem;284(44):30350-30359. 2009-01-01 [PMID: 19726677]

Lehmann S, Stiehl DP, Honer M et al. Longitudinal multimodal in vivo imaging of tumor hypoxia its downstream molecular events. PNAS;106(33):14004-14009. 2009-01-01 [PMID: 19666490]

Xie L, Xiao K, Whalen EJ et al. Oxygen-Regulated {beta}2-Adrenergic Receptor Hydroxylation by EGLN3 Ubiquitylation by pVHL. Sci Signal;2(78):ra33-. 2009-01-01 [PMID: 19584355]

Wong W, Goehring AS, Kapiloff MS et al. mAKAP Compartmentalizes Oxygen-Dependent Control of HIF-1{alpha}. Sci Signal;1(51):ra18-. 2008-01-01 [PMID: 19109240]

Peurala E, Koivunen P, Bloigu R, Haapasaari KM, Jukkola-Vuorinen A. Expressions of individual PHDs associate with good prognostic factors and increased proliferation in breast cancer patients. Breast Cancer Res Treat;133(1):179-88. 2012-05-01 [PMID: 21877141] (IF/IHC, Human)

Ietta, F et al. Dynamic HIF-1alpha regulation during human placental development. Biol Reprod. 2006-01-01 [PMID: 16611863]

More publications at http://www.novusbio.com/NB100-138

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