# **Product Datasheet**

# EGLN3/PHD3 Antibody NB100-139SS

Unit Size: 0.025 ml

Store at 4C. Do not freeze.

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#### Reviews: 1 Publications: 22

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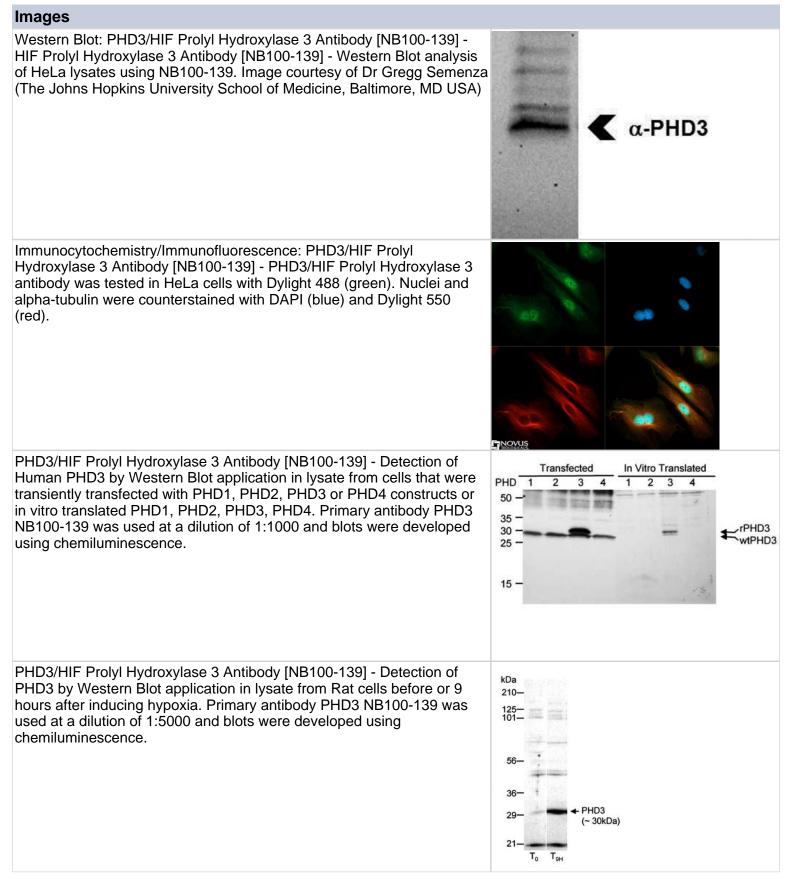
Updated 6/15/2014 v.20.1

## NB100-139SS

EGLN3/PHD3 Antibody

0.025 ml
1 mg/ml
Store at 4C. Do not freeze.
Polyclonal
0.1% Sodium Azide
Immunogen affinity purified
Tris-citrate/phosphate, pH 7-8
28 kDa
Rabbit
112399
EGLN3
Human, Mouse, Rat
Human and rat. Mouse reactivity reported in scientific literature (PMID: 24037093)
Synthetic peptide corresponding to residues between 50-100 of human PHD3/HIF Prolyl Hydroxylase 3 using the numbering given in entry NP_071356.1 (GeneID 112399).
Western Blot, Electron Microscopy, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Immunoprecipitation
Electron Microscopy, Immunocytochemistry/Immunofluorescence 1:500, Immunohistochemistry-Paraffin, Immunoprecipitation, Western Blot 1:1000- 1:2000
This PHD3/HIF Prolyl Hydroxylase 3 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band can be seen at 27-30 kDa. Use in Immunohistochemistry-Paraffin and Electron Microscopy reported in scientific literature (PMID 17003483) Use in chromatin immunoprecipitation reported in scientific literature (PMID 24367580)







#### **Publications**

Vogler M, Zieseniss A, Hesse AR et al. Pre- and post-conditional inhibition of prolyl-4-hydroxylase domain enzymes protects the heart from an ischemic insult Pflugers Arch. 2015 Jan 13 [PMID: 25578858] (IHC-P, Mouse)

Details:

PHD3/HIF Prolyl Hydroxylase 3 antibody used at 1:10,000 dilution for IHC-P application on heart sections from C57BL/6 mice after 1, 6, and 24 h of treatment (40-fold magnification) with ICA, a specific PHD inhibitor 2-(1-chloro-4-hydroxylsoquinoline-3-carboxamido) acetate - two doses of 40 mg/kg BW ICA or vehicle i.p., either 6 and 1 h before myocardial infarction or 1 and 5 h after myocardial infarction (Fig 3).

Place TL, Nauseef JT, Peterson MK et al. Prolyl-4-Hydroxylase 3 (PHD3) Expression Is Downregulated during Epithelial-to-Mesenchymal Transition. PLoS One 2013 Dec 18 [PMID: 24367580] (WB, IP, Human)

Rawluszko AA, Bujnicka KE, Horbacka K et al. Expression and DNA methylation levels of prolyl hydroxylases PHD1, PHD2, PHD3 and asparaginyl hydroxylase FIH in colorectal cancer. BMC Cancer. 2013 Nov 6 [PMID: 24195777] (WB, Human)

Taniguchi CM, Finger EC, Krieg AJ et al. Cross-talk between hypoxia and insulin signaling through Phd3 regulates hepatic glucose and lipid metabolism and ameliorates diabetes. Nat Med. 2013 Oct [PMID: 24037093] (WB, Mouse)

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 Oct [PMID: 17003483] (WB, IHC-P, ICC/IF, EM, Rat)

Galan-Cobo A, Sanchez-Silva R, Serna A et al. Cellular overexpression of aquaporins slows down the natural HIF-2a degradation during prolonged hypoxia. Gene. 2013 Jul 13 [PMID: 23545307] (WB, Rat)

Cervera AM, Apostolova N, Luna-Crespo F et al. An alternatively spliced transcript of the PHD3 gene retains prolyl hydroxylase activity. Cancer Lett 2006 Feb 20 [PMID: 16473674]

Hogel H, Rantanen K, Jokilehto T et al. Prolyl hydroxylase PHD3 enhances the hypoxic survival and G1 to S transition of carcinoma cells. PLoS One. 2011 [PMID: 22087251] (WB, Human)

Luukkaa M, Jokilehto T, Kronqvist P, Vahlberg T, Grenman R, Jaakkola P, Minn H. The Cellular Oxygen Sensor PHD2 in Cancer Growth 2011. Int J Radiat Biol85(10):900-8. 2009 [PMID: 19639506]

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 [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 [PMID: 19109240]

Li N et al. Expression actions of HIF prolyl-4-hydroxylase in the rat kidneys. Am J Physiol Renal Physiol 292: F207 - F216. 2007 [PMID: 16885149]

More publications at http://www.novusbio.com/NB100-139





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#### 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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

