

Product Datasheet

HIF-2 alpha/EPAS1 Antibody Pack NB100-902HIF2

Unit Size: 4 Vials

Storage is content dependent.

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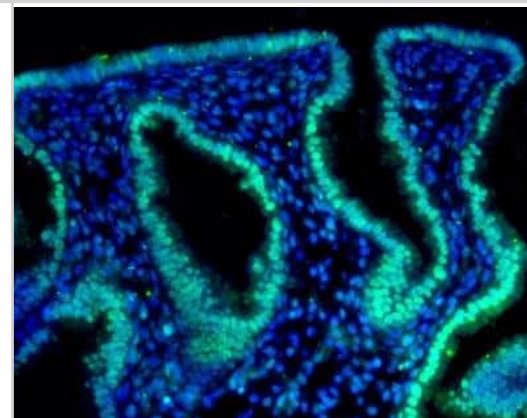


NB100-902HIF2**HIF-2 alpha/EPAS1 Antibody Pack**

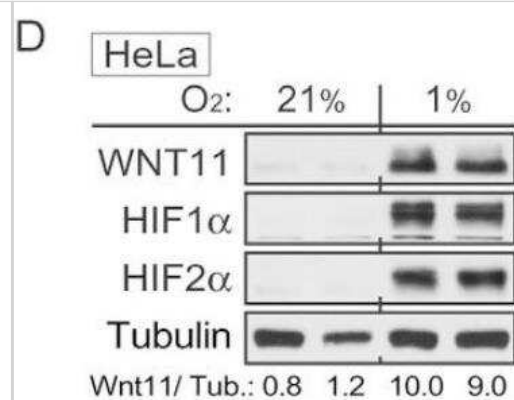
Product Information	
Unit Size	4 Vials
Concentration	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
Storage	Storage is content dependent.
Product Description	
Description	This pack contains 1 vial each of: NB100-122SS (0.025 mL) and NB100-132SS (0.05 mL).
Gene ID	2034
Gene Symbol	EPAS1
Species	Human, Mouse, Rat, Hamster, Rabbit
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	These antibodies are specific for HIF-2alpha.
Immunogen	For NB100-122: Proprietary peptide derived from the mouse/human HIF-2a. For NB100-132: Human HIF-2a amino acids 535-631.
Kit Components	NB100-122: HIF-2 alpha/EPAS1 Antibody - BSA Free, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP], HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP], NB100-132: HIF-2 alpha/EPAS1 Antibody (ep190b)
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot, Simple Western, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Application Notes	See individual datasheets of components for their validated applications. By Western blot, these antibodies recognize a band ~118 kDa, representing HIF-2a in induced tissues and cells. Nuclear extracts should be used for Western analysis, if possible.

Images

Immunohistochemistry: HIF-2 alpha/EPAS1 Antibody Pack [NB100-902HIF2] - Analysis of HIF-2 alpha in human endometrium using. Donkey anti-mouse Alexa Fluor 488 secondary antibody was used. Image from verified customer review. HIF-2 alpha/EPAS1 Antibody (ep190b) [NB100-132]



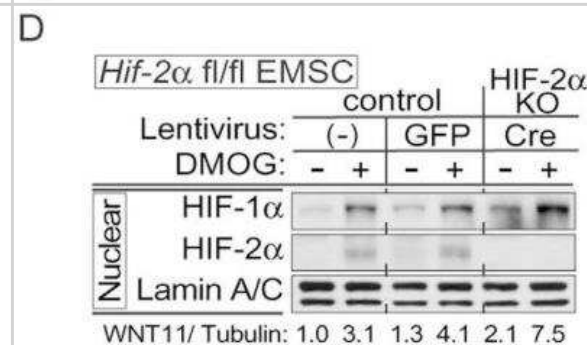
Western Blot: HIF-2 alpha/EPAS1 Antibody Pack [NB100-902HIF2] - WNT11 is induced by hypoxia or hypoxic mimetics in different cell types. Immunoblot analyses of HeLa cells under normal air or hypoxia for 24 hrs. Image collected and cropped by CiteAb from the following publication (<http://www.nature.com/articles/srep21520>) licensed under a CC-BY license. HIF-2 alpha/EPAS1 Antibody [NB100-122]



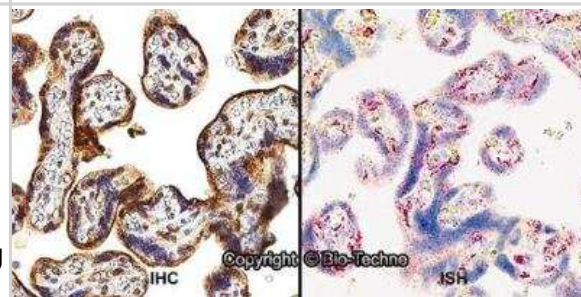
Simple Western: HIF-2 alpha/EPAS1 Antibody Pack [NB100-902HIF2] - Lane view shows a specific band for HIF-2 alpha in 0.5 mg/ml of Hypoxic HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. HIF-2 alpha/EPAS1 Antibody (ep190b) [NB100-132]



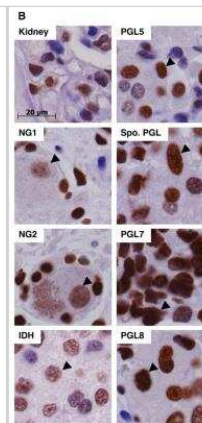
Knockout Validated: HIF-2 alpha/EPAS1 Antibody Pack [NB100-902HIF2] - HIF-1alpha is the predominant transcriptional regulator of WNT11 expression during hypoxia. EMSCs isolated from the indicated mouse genotypes were infected with lentivirus expressing GFP or Cre recombinase. Non-infected cells and GFP infected cells served as controls. Immunoblot analyses of EMSCs derived from the indicated genotypes treated with 0.1 mM DMOG for 24 hrs. Attenuated WNT11 expression in Hif-1alpha KO EMSCs (lenti-Cre infected Hif-1af/f). Image collected and cropped by CiteAb from the following publication (<http://www.nature.com/articles/srep21520>) licensed under a CC-BY license. HIF-2 alpha/EPAS1 Antibody [NB100-122]



Immunohistochemistry: HIF-2 alpha/EPAS1 Antibody Pack [NB100-902HIF2] - Formalin-fixed paraffin-embedded tissue sections of human placenta were probed for HIF-2 alpha/EPAS1 mRNA (ACD RNAScope Probe, catalog #410598; Fast Red chromogen, ACD catalog # 322750). Adjacent tissue section was processed for immunohistochemistry using Rabbit Polyclonal (Novus Biologicals catalog # NB100-122) at 1:100 dilution with one-hour incubation at room temperature followed by incubation with anti-rabbit IgG VisUCyte HRP Polymer Antibody (Catalog # VC003) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). Specific staining was localized to trophoblastic cells. HIF-2 alpha/EPAS1 Antibody [NB100-122]



Immunohistochemistry: HIF-2 alpha/EPAS1 Antibody Pack [NB100-902HIF2] - Normal ganglia 1 (NG1), normal ganglia 2 (NG2) and IDH-mutant (IDH). Sporadic PGL (Spo. PGL). HIF2 alpha staining. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0127471](https://doi.org/10.1371/journal.pone.0127471)) licensed under a CC-BY license. HIF-2 alpha/EPAS1 Antibody (ep190b) [NB100-132]



Publications

Hill, P et al. Inhibition of hypoxia inducible factor hydroxylases protects against renal ischemia-reperfusion injury. *J Am Soc Nephrol*;19(1):39-46. 2008-01-01 [PMID: 18178798]

Inoue, Y et al. Expression of hypoxia-inducible factor 1alpha and 2alpha in choroidal neovascular membranes associated with age-related macular degeneration. *Br J Ophthalmol*;91(12):1720-1. 2007-12-01 [PMID: 18024825]

Khacho, M et al. Cancer-causing mutations in a novel transcription-dependent nuclear export motif of VHL abrogate oxygen-dependent degradation of hypoxia-inducible factor. *Mol Cell Biol*;28(1):302-14. 2008-01-01 [PMID: 17967880]

Shinojima, T et al. Renal cancer cells lacking hypoxia inducible factor (HIF)-1alpha expression maintain vascular endothelial growth factor expression through HIF-2alpha. *Carcinogenesis*;28(3):529-36. 2007-03-01 [PMID: 16920734]

Hui, A S et al. Calcium signaling stimulates translation of HIF-alpha during hypoxia. *J. Biol. Chem.* 20: 466-475. 2006-01-01 [PMID: 16507764]

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Fukuda R, Zhang H, Kim JW et al. HIF-1 regulates cytochrome oxidase subunits to optimize efficiency of respiration in hypoxic cells. *Cell* 2007-04-06 [PMID: 17418790]

Calvani, M et al. Hypoxic induction of an HIF-1alpha-dependent bFGF autocrine loop drives angiogenesis in human endothelial cells. *Blood*;107(7):2705-12. 2006-04-01 [PMID: 16304044]

Kuznetsova, AV et al. von Hippel-Lindau protein binds hyperphosphorylated large subunit of RNA polymerase II through a proline hydroxylation motif and targets it for ubiquitination. *Proc Natl Acad Sci U S A*;100(5):2706-11. 2003-03-04 [PMID: 12604794]

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Mizukami, Y et al. Hypoxic regulation of vascular endothelial growth factor through the induction of phosphatidylinositol 3-kinase/Rho/ROCK and c-Myc. *J Biol Chem*;281(20):13957-63. 2006-05-19 [PMID: 16543245]



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NBL1-10286	HIF-2 alpha/EPAS1 Overexpression Lysate
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NB100-105	HIF-1 alpha Antibody (H1alpha67)
NB100-122	HIF-2 alpha/EPAS1 Antibody - BSA Free

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