

Product Datasheet

HIF-1 alpha Antibody Pack

NB100-900WB

Unit Size: 7 Vials

Store at 4C. Do not freeze.

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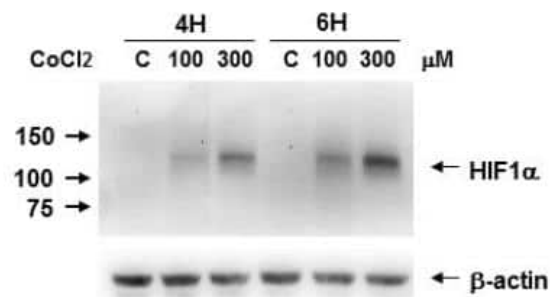


NB100-900WB**HIF-1 alpha Antibody Pack**

Product Information	
Unit Size	7 Vials
Concentration	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Target Molecular Weight	93 kDa
Product Description	
Description	This pack contains 1 vial each of: NB100-105SS (25 uL), NB100-479SS (25 uL), NB100-449SS (25 uL), NB100-296SS (25 uL), NB100-134SS (25 uL), HAF008 and HAF007.
Gene ID	3091
Gene Symbol	HIF1A
Species	Human, Mouse, Rat, Canine, Primate, Rabbit
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	These antibodies are specific for HIF-1 alpha.
Immunogen	For NB100-105, NB100-134: Fusion protein containing amino acids 432-528 of human HIF-1 alpha. For NB100-296: Fusion protein containing amino acids 329-530 of human HIF-1 alpha. >br/>For NB100-449: A synthetic peptide mapping to a region between residues 775 and the C-terminus. For NB100-479SS: A fusion protein including amino acids 530 - 825 of the mouse HIF-1 alpha protein [Uniprot# Q61221].
Kit Components	NB100-105: HIF-1 alpha Antibody (H1alpha67), NB100-134: HIF-1 alpha Antibody - BSA Free, NB100-296: HIF-1 alpha Antibody (HA111) - BSA Free, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP], HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP], NB100-479: HIF-1 alpha Antibody - BSA Free, NB100-449: HIF-1 alpha Antibody
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot, Simple Western, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Application Notes	See individual datasheets of components for their validated applications. By Western blot, these antibodies recognize a band ~120 kDa, representing HIF-1 alpha in induced tissues and cells. Multiple bands may be seen at 120 kDa representing post-translational modification of HIF-1 alpha. Nuclear extracts should be used for Western blot analysis.

Images

Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - HIF-1 alpha induction by CoCl₂ on Caki-1 cell lysate. HIF-1 alpha antibody (H1alpha67) [NB100-105]. Western blot image submitted by a verified customer review.



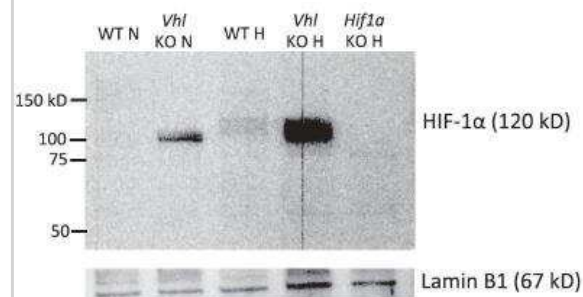
Simple Western: HIF-1 alpha Antibody Pack [NB100-900WB] - Simple Western lane view shows a specific band for HIF-1 alpha in 0.5 mg/mL of hypoxic HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. HIF-1 alpha Antibody [NB100-449].



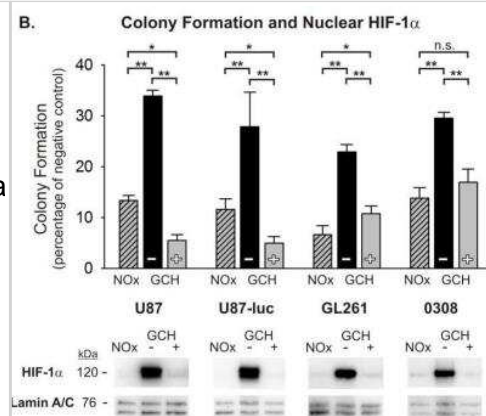
Simple Western: HIF-1 alpha Antibody Pack [NB100-900WB] - Image shows a specific band for HIF-1 alpha in 0.2 mg/mL of Hypoxic HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



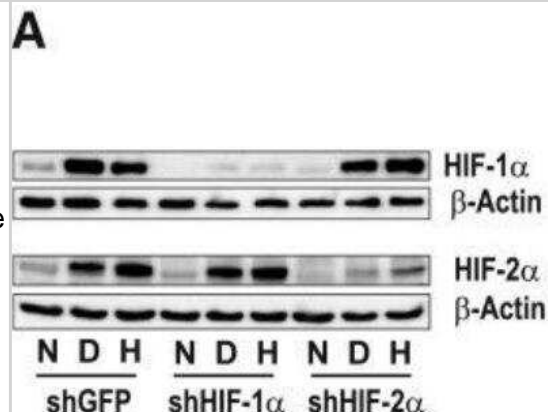
Knockout Validated: HIF-1 alpha Antibody Pack [NB100-900WB] - Naive CD4 T cells from WT, VHL-deficient (Vhl KO), or HIF-1 alpha-deficient (Hif1a KO) mice were differentiated under IL-22-skewing conditions for a total of 60 h. Some cells remained at normoxia for the duration of the culture (N); others were at normoxia for 35 h and then hypoxia (1% O₂) for 24 h (H). At 60 h, nuclear extracts were harvested, and HIF-1 alpha and Lamin B1 levels were analyzed by Western blot. Image from verified customer review. HIF-1 alpha Antibody (H1alpha67) [NB100-105]



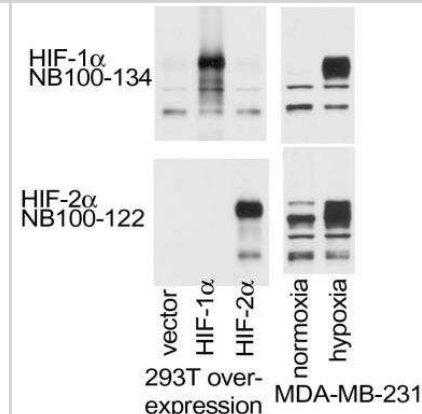
Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Normoxic pre-treatment sensitizes glioma cells to radiation after graded chronic hypoxic (GCH) exposure. The results of anchorage-independent colony forming assays are shown for U87, U87-luc, GL261 glioma cells and 0308 GSCs after 5 Gy radiation exposure under varying O₂ conditions. For easier comparisons among cell types, raw values are expressed as a % of the cell type's negative (non-irradiated) control and the means & SEMs are plotted. Also shown are Western blots of nuclear HIF-1alpha at the time of irradiation. Corresponding Western blots of lamin A/C are shown as a loading control. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0111199](https://doi.org/10.1371/journal.pone.0111199)) licensed under a CC-BY license. HIF-1 alpha Antibody [NB100-479]



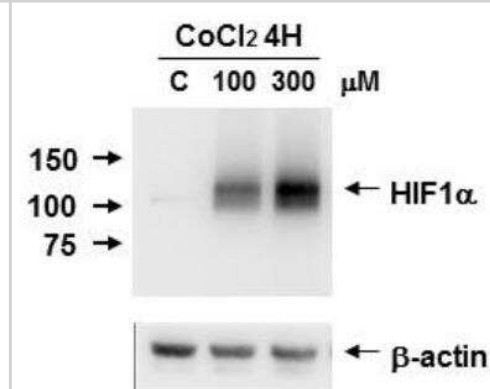
Knockdown Validated: HIF-1 alpha Antibody Pack [NB100-900WB] - Morphological alterations induced by DMOG are HIF-1alpha dependent. glEND.2 cells were stably transfected with shGFP, shHIF-1alpha or shHIF-2alpha. The clones were cultured under normoxic (N) or hypoxic (H, 1% O₂) conditions, or treated with DMOG for 6 h. 30 ug protein of cellular protein were loaded for the detection of HIF-1alpha, and nuclear extracts (20 ug protein) were used for the detection of HIF-2alpha. Image collected and cropped by CiteAb from the following publication ([//biosignaling.biomedcentral.com/articles/10.1186/1478-811X-11-80](https://doi.org/10.1186/1478-811X-11-80)) licensed under a CC-BY license. HIF-1 alpha Antibody [NB100-449]



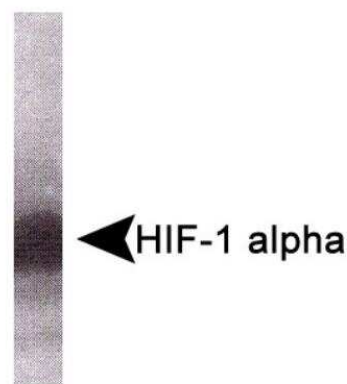
Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Analysis of HIF-1 alpha in overexpression and endogenous HIF-1 alpha & HIF-2 alpha using anti-HIF-1 alpha antibody NB100-134. The data showed that HIF-1 alpha antibody did not react to HIF-2 alpha overexpression. Western blot image submitted by a verified customer review.



Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - HIF-1 alpha induction on Caki-1 cell lysate using CoCl₂. Western blot image submitted by a verified customer review. HIF-1 alpha Antibody [NB100-449]



Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Detection of HIF-1 alpha (125-130 kDa) from human placental villous explant total protein. HIF-1 alpha Antibody (HA111) [NB100-296]



Publications

Bex, C et al. A yeast two-hybrid system reconstituting substrate recognition of the von Hippel-Lindau tumor suppressor protein. *Nucleic Acids Res*;35(21):e142. 2007-01-01 [PMID: 17986458]

Ohnishi, H et al. Inhibition of tubular cell proliferation by neutralizing endogenous HGF leads to renal hypoxia and bone marrow-derived cell engraftment in acute renal failure. *Am J Physiol Renal Physiol*;294(2):F326-35. 2008-02-01 [PMID: 18032545]

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]

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]

Brooks, C et al. Characterization of cell clones isolated from hypoxia-selected renal proximal tubular cells. *Am J Physiol Renal Physiol*;292(1):F243-52. 2007-01-01 [PMID: 16885151]

Grimmer, C et al. Regulation of type II collagen synthesis during osteoarthritis by prolyl-4-hydroxylases: possible influence of low oxygen levels. *Am J Pathol*;169(2):491-502. 2006-08-01 [PMID: 16877351]

Villanueva, S et al. bFGF induces an earlier expression of nephrogenic proteins after ischemic acute renal failure. *Am. J. Physiol. Regul. Comp. Physiol.* 291: R1677-1687. 2006-01-01 [PMID: 16873559]

A R et al. Simvastatin promotes angiogenesis prevents microvascular remodeling in chronic renal ischemiaChade. *FASEB J* 20: 1706-1708. 2006-01-01 [PMID: 16790524]

Lee, KS et al. Hydrogen peroxide induces vascular permeability via regulation of vascular endothelial growth factor. *Am J Respir Cell Mol Biol*;35(2):190-7. 2006-08-01 [PMID: 16574943]

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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]

Luo, Y et al. A constitutively active hypoxia-inducible factor-1alpha/VP16 hybrid factor activates expression of the human B-type natriuretic peptide gene. *Molec. Pharmac.* 69: 1953-1962. 2006-01-01 [PMID: 16507742]

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Products Related to NB100-900WB

H00003091-P01-10ug	Recombinant Human HIF-1 alpha GST (N-Term) Protein
NB100-105	HIF-1 alpha Antibody (H1alpha67)
NB100-479	HIF-1 alpha Antibody - BSA Free
NB100-122	HIF-2 alpha/EPAS1 Antibody - BSA Free

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