

# Product Datasheet

## HIF-1 alpha Antibody Pack

### NB100-900WB

Unit Size: 7 Vials

Store at 4C. Do not freeze.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Publications: 36**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB100-900WB](http://www.novusbio.com/NB100-900WB)

Updated 4/13/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NB100-900WB](http://www.novusbio.com/reviews/destination/NB100-900WB)



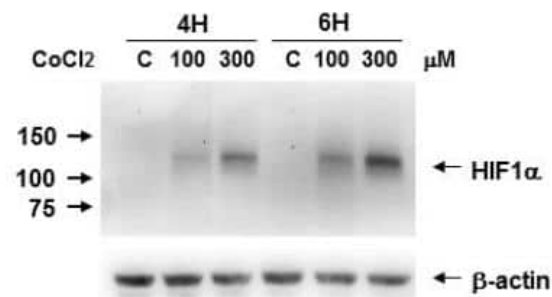
**NB100-900WB****HIF-1 alpha Antibody Pack**

<b>Product Information</b>	
<b>Unit Size</b>	7 Vials
<b>Concentration</b>	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Target Molecular Weight</b>	93 kDa
<b>Product Description</b>	
<b>Description</b>	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.
<b>Gene ID</b>	3091
<b>Gene Symbol</b>	HIF1A
<b>Species</b>	Human, Mouse, Rat, Canine, Primate, Rabbit
<b>Reactivity Notes</b>	See individual datasheets of components for their validated species
<b>Specificity/Sensitivity</b>	These antibodies are specific for HIF-1 alpha.
<b>Immunogen</b>	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].
<b>Kit Components</b>	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
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot, Simple Western, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	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 CoCl<sub>2</sub> on Caki-1 cell lysate. HIF-1 alpha antibody (H1alpha67) [NB100-105]. Western blot image submitted by a verified customer review.



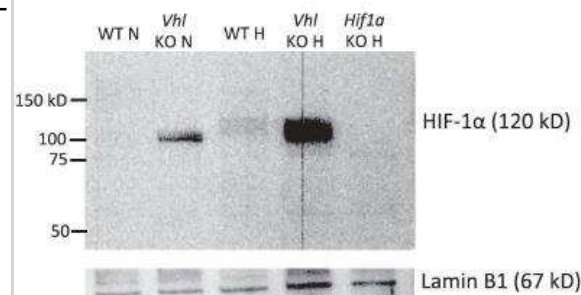
Simple Western: HIF-1 alpha Antibody Pack [NB100-900WB] - Simple Western lane view shows a specific band for HIF-1 alpha in 0.5 mg/mL of hypoxic HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. HIF-1 alpha Antibody [NB100-449].



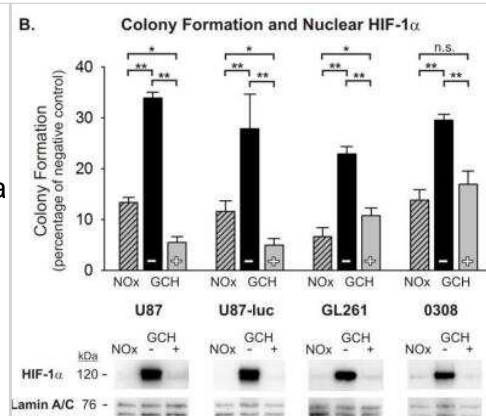
Simple Western: HIF-1 alpha Antibody Pack [NB100-900WB] - Image shows a specific band for HIF-1 alpha in 0.2 mg/mL of Hypoxic HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



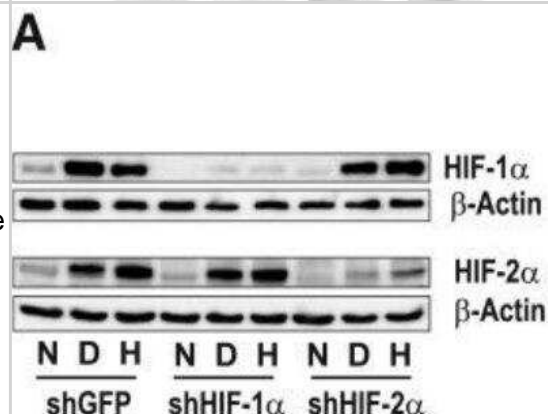
Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Naive CD4 T cells from WT, VHL-deficient (Vhl KO), or HIF-1 alpha-deficient (HIF-1 alpha KO) mice were differentiated under IL-22-skewing conditions for a total of 60 h. Some cells remained at normoxia for the duration of the culture (N); others were at normoxia for 35 h and then hypoxia (1% O<sub>2</sub>) 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]



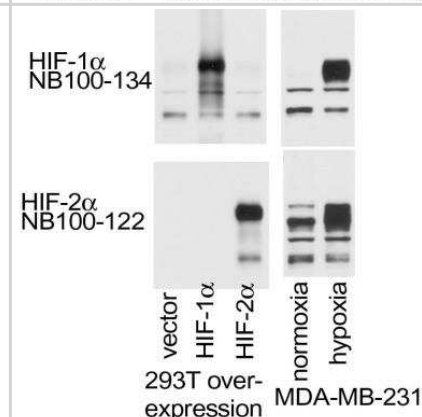
Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Normoxic pre-treatment sensitizes glioma cells to radiation after graded chronic hypoxic (GCH) exposure. The results of anchorage-independent colony forming assays are shown for U87, U87-luc, GL261 glioma cells and 0308 GSCs after 5 Gy radiation exposure under varying O<sub>2</sub> 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](http://dx.plos.org/10.1371/journal.pone.0111199)) licensed under a CC-BY license. HIF-1 alpha Antibody [NB100-479]



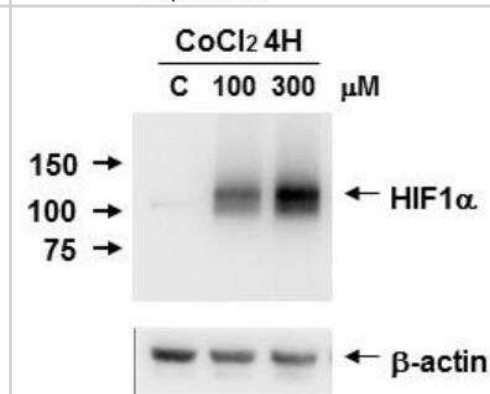
Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Morphological alterations induced by DMOG are HIF-1alpha dependent. glEND.2 cells were stably transfected with shGFP, shHIF-1alpha or shHIF-2alpha. The clones were cultured under normoxic (N) or hypoxic (H, 1% O<sub>2</sub>) conditions, or treated with DMOG (D). 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](http://biosignaling.biomedcentral.com/articles/10.1186/1478-811X-11-80)) licensed under a CC-BY license. HIF-1 alpha Antibody [NB100-449]



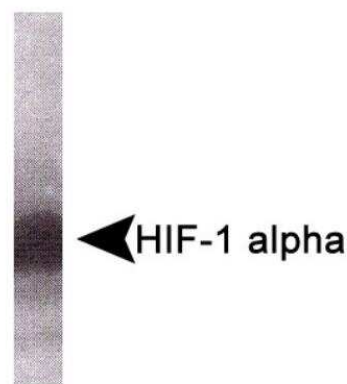
Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - Analysis of HIF-1 alpha in overexpression and endogenous HIF-1 alpha & HIF-2 alpha using anti-HIF-1 alpha antibody NB100-134. The data showed that HIF-1 alpha antibody did not react to HIF-2 alpha overexpression. Western blot image submitted by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



Western Blot: HIF-1 alpha Antibody Pack [NB100-900WB] - HIF-1 alpha induction on Caki-1 cell lysate using CoCl<sub>2</sub>. 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]

Lee, KS et al. Phosphatase and tensin homolog deleted on chromosome 10 (PTEN) reduces vascular endothelial growth factor expression in allergen-induced airway inflammation. *Mol Pharmacol*;69(6):1829-39. 2006-06-01 [PMID: 16527906]

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. Pharmacol.* 69: 1953-1962. 2006-01-01 [PMID: 16507742]

More publications at <http://www.novusbio.com/NB100-900WB>



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **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

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Antibody Packs are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB100-900WB](http://www.novusbio.com/reviews/submit/NB100-900WB)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

