Product Datasheet

HIF-1 alpha Antibody Pack NB100-905

Unit Size: 7 Vials

Store at 4C. Do not freeze.



Reviews: 2 Publications: 4

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Updated 4/13/2025 v.20.1

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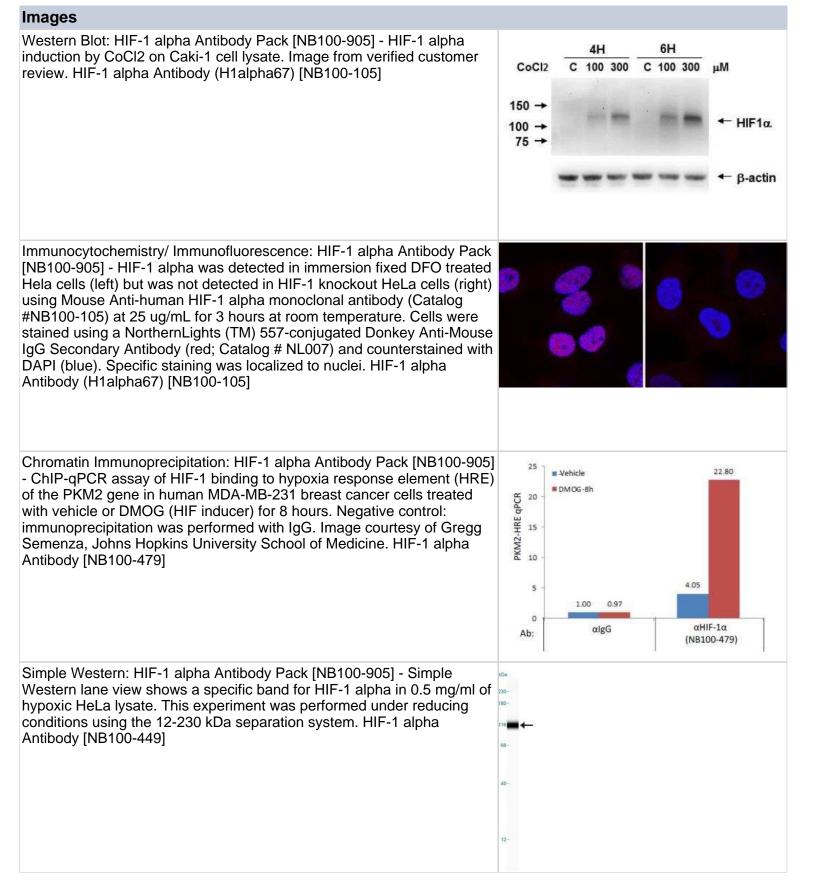
NB100-905

HIF-1 alpha Antibody Pack

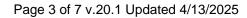
Product Information	
Unit Size	7 Vials
Concentration	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Product Description	
Description	This pack contains 1 vial each of: NB100-654SS (0.025 mL), NB100-479SS (0.025 mL), NB100-449SS (0.025 mL), NB100-105 (0.05 mL) and NB100-131 (0.05 mL).
Gene ID	3091
Gene Symbol	HIF1A
Species	Human, Mouse, Rat, Canine
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	These antibodies are specific for HIF-1alpha.
Immunogen	For NB 100-654: Human HIF-1 alpha amino acids 432-528. For NB 100-105: Human HIF-1 alpha amino acids 432-528. For NB 100-131: Human HIF-1 alpha amino acids 329-530. For NB 100-449: Human HIF-1 alpha amino acids 775-826. For NB 100-479: Antibody was developed against 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), NB100-654: HIF-1 alpha Antibody - 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, NB100-131: HIF- 1 alpha Antibody (ESEE122) - BSA Free
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot, Simple Western, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	See individual datasheets of components for their validated applications. Western Blot: A starting dilution of 1:1,000 is recommended with titration up or down depending upon the signal and background. Immunohistochemistry: Both positive and negative feedback have been provided on all antibodies included in this pack. A starting dilution of 1:250 is recommended with titration up or down depending upon the signal and background.

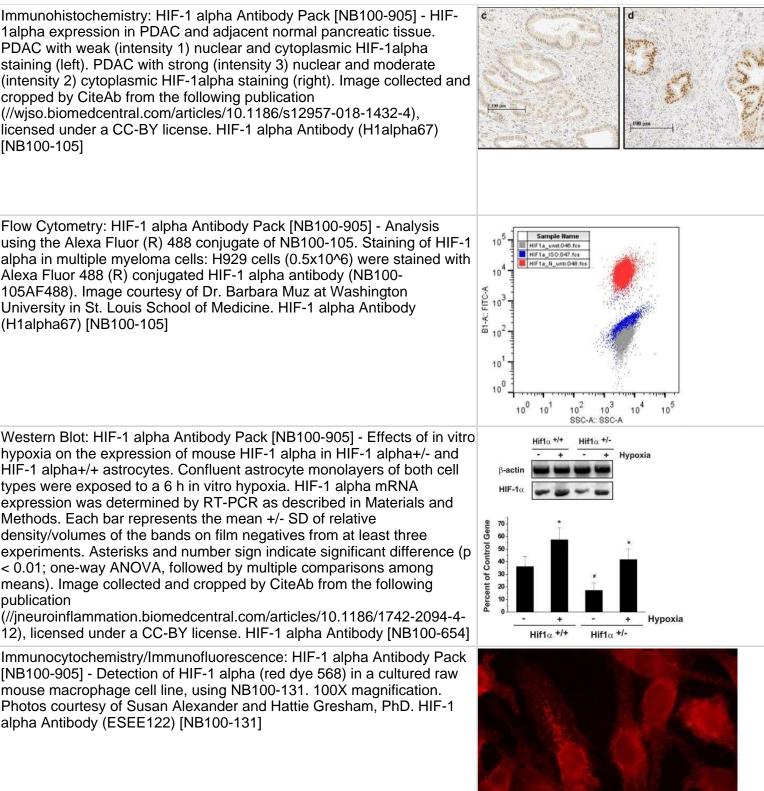
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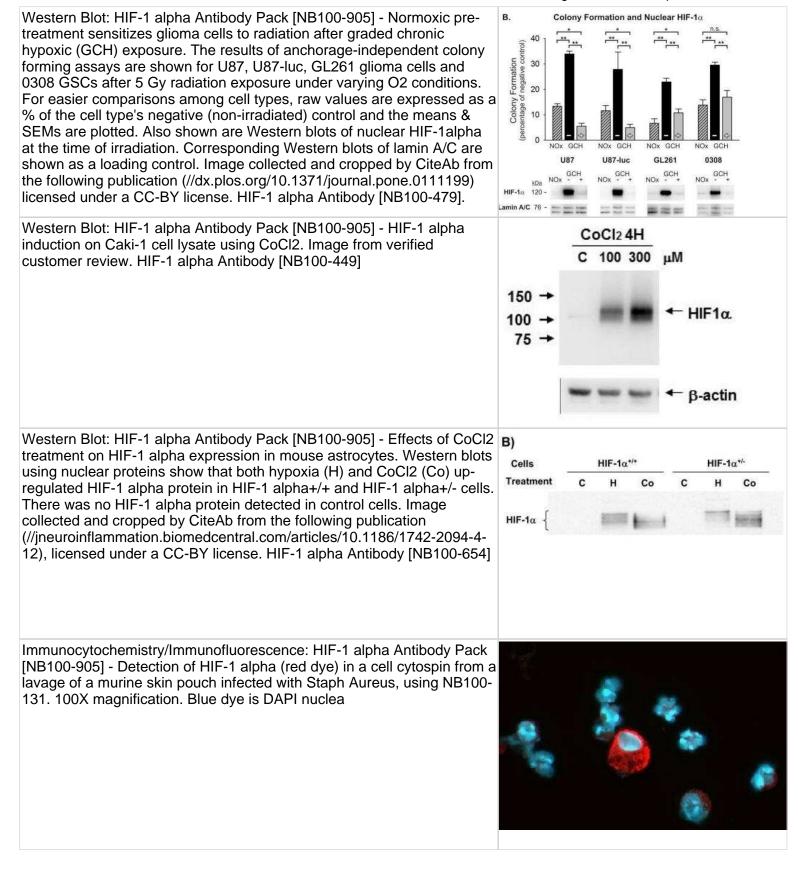






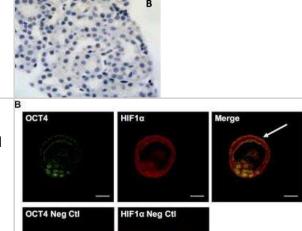


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Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] -Staining in normal mouse kidney showing (A) staining with antibody and (B) blocking peptide used at 10-fold excess concentration. Images provided by Dr Yves Heremans. Please see the product review of NBC1-18422 for additional details. HIF-1 alpha Antibody [NB100-479]

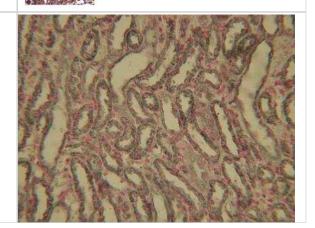


Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] -Hif1alpha expression in preimplantation embryos. Co-staining of OCT4 and Hif1alpha in inner cell mass of blastocyst (top) and negative control images without primary antibodies (bottom). Scale bar: 30um. Image collected and cropped by CiteAb from the following publication (//dx.plos.org/10.1371/journal.pone.0154309) licensed under a CC-BY license. HIF-1 alpha Antibody [NB100-479]

Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] -Immunohistochemical analysis in non-GIST STS representing negative, and score 1-3 of Carbonic Anhydrase IX/CA9, GLUT-1, HIF-1 alpha, and HIF-2 alpha/EPAS1. non-GIST STS: non-gastrointestinal stromal tumor soft-tissue sarcomas, Carbonic Anhydrase IX/CA9: carbonic anhydrase IX, GLUT-1: glucose transporter-1, and HIF-1/2alpha: hypoxia induced factor 1/2alpha. Image collected and cropped by CiteAb from the following publication

(//www.hindawi.com/journals/sarcoma/2012/541650/), licensed under a CC-BY license. HIF-1 alpha Antibody (ESEE122) [NB100-131]

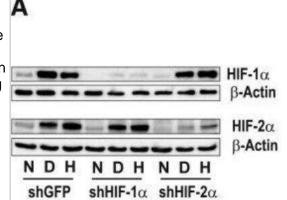
Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] -Analysis of HIF-1 alpha in paraffin-embedded mouse kidney tissue section using anti-HIF-1 alpha antibody. Image from verified customer review. HIF-1 alpha Antibody (ESEE122) [NB100-131]





Western Blot: HIF-1 alpha Antibody Pack [NB100-905] - 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) licensed under a CC-BY license. HIF-1 alpha Antibody [NB100-449]



Publications

Jeon, H et al. Quercetin activates an angiogenic pathway, hypoxia inducible factor (HIF)-1-vascular endothelial growth factor, by inhibiting HIF-prolyl hydroxylase: a structural analysis of quercetin for inhibiting HIF-prolyl hydroxylase. Mol Pharmacol 71(6):1676-84. 2007-06-01 [PMID: 17377063]

Gu, M et al. Silibinin inhibits inflammatory and angiogenic attributes in photocarcinogenesis in SKH-1 hairless mice. Cancer Res 67(7):3483-91. 2007-04-01 [PMID: 17409458] (WB, Mouse)

Winner M, Koong AC, Rendon BE et al. Amplification of tumor hypoxic responses by macrophage migration inhibitory factor-dependent hypoxia-inducible factor stabilization. Cancer Res 2007-01-01 [PMID: 17210698] (IP, WB, Human)

Su, H et al. Adeno-associated viral vector-mediated hypoxia response element-regulated gene expression in mouse ischemic heart model. Proc Natl Acad Sci U S A 99(14):9480-5. 2002-07-09 [PMID: 12084814] (IF/IHC, Mouse)





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Products Related to NB100-905

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

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