Product Datasheet

HIF-1 alpha Antibody (H1alpha67) - Azide and BSA Free
NBP2-80760

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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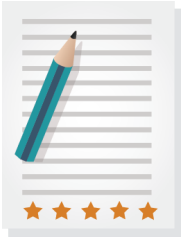
Updated 8/21/2023 v.20.1



NBP2-80760

HIF-1 alpha Antibody (H1alpha67) - Azide and BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	H1alpha67
Preservative	No Preservative
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	93 kDa

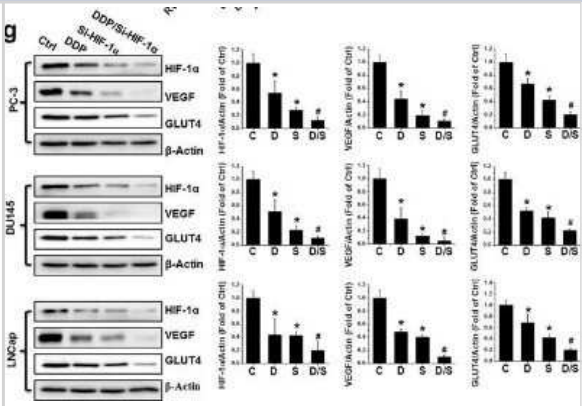
Product Description	
Host	Mouse
Gene ID	3091
Gene Symbol	HIF1A
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Feline, Ferret, Primate, Monkey, Rabbit, Sheep, Xenopus
Reactivity Notes	Xenopus reactivity was reported in scientific literature (PMID: 18303027). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information. Canine reactivity reported in scientific literature (PMID: 24153191, 29974500). Feline reactivity reported in scientific literature (PMID: 30419801).
Immunogen	This HIF-1 alpha Antibody (H1alpha67) was developed against a fusion protein containing amino acids 432 - 528 of human HIF-1 alpha [Uniprot# Q16665].

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, ELISA, Flow Cytometry, Gel Super Shift Assays, Immunoassay, Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In vitro assay, Immunoprecipitation, Ligand Activation, Proximity Ligation Assay, Tissue Culture Substratum, Chromatin Immunoprecipitation (ChIP), CyTOF-ready, Knockdown Validated, Knockout Validated

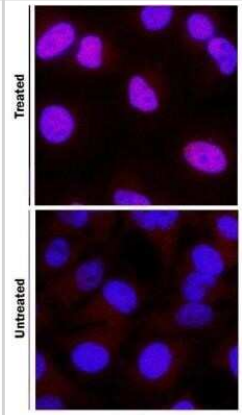
Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation 1 - 5 ug/IP. Use reported in scientific literature, Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000. Use reported in scientific literature (PMID 20042684), Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:50, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20 - 1:50, Immunohistochemistry-Frozen 1:20 - 1:50, Immunoassay reported in scientific literature (PMID 26147748), Immunoblotting reported in multiple pieces of scientific literature, In vitro assay reported in multiple pieces of scientific literature, Gel Super Shift Assays 1:1 - 1:100. Use reported in scientific literature (PMID 22411794), Proximity Ligation Assay reported in scientific literature (PMID 27595394), Tissue Culture Substratum, Ligand Activation reported in scientific literature (PMID 26147748), Chromatin Immunoprecipitation (ChIP) 1-5 ug/IP, CyTOF-ready, Knockout Validated reported in scientific literature (PMID 26861754), Knockdown Validated
Application Notes	In WB, a band can be seen at 120 kDa representing HIF-1 alpha in induced tissues and cells. Multiple bands may be seen at 100-120 kDa representing post-translational modification of HIF-1 alpha. For WB, testing on nuclear extracts is recommended. We recommend the use of a highly sensitive ECL reagent, such as West Pico PLUS, for Western blot detection.

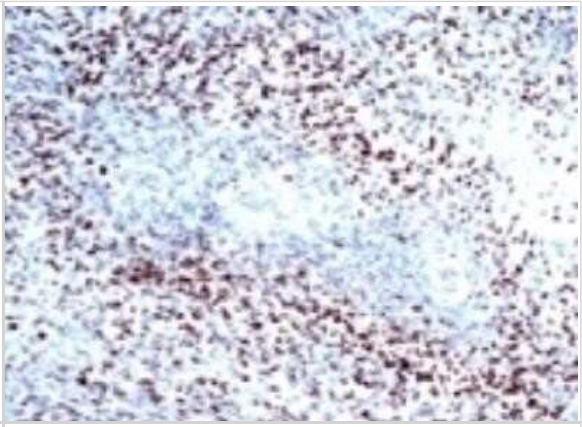
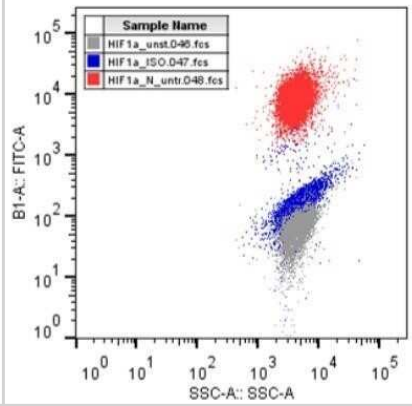
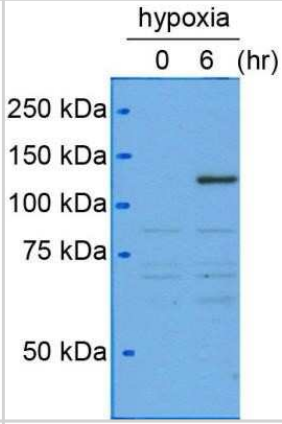
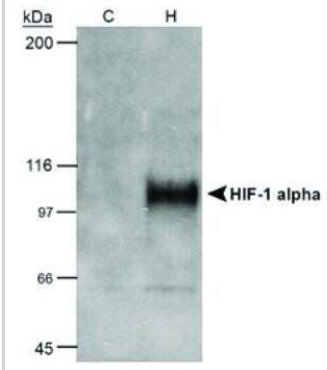
Images

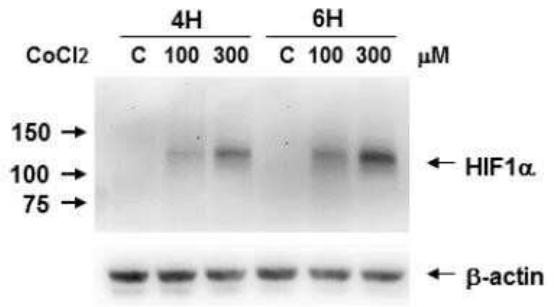
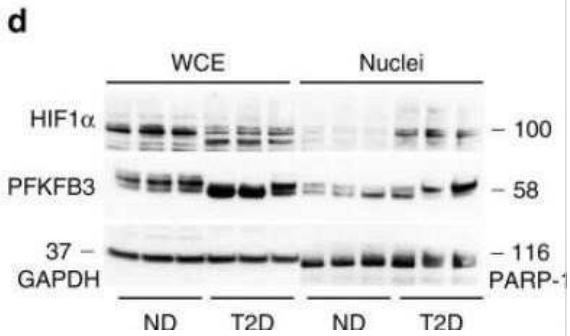
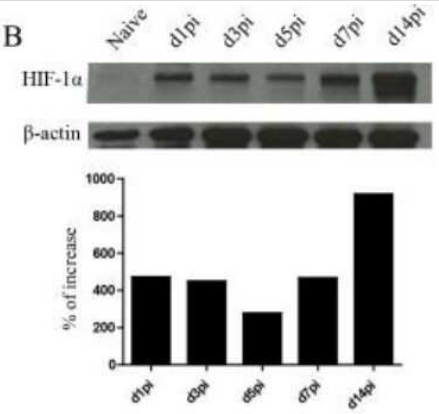
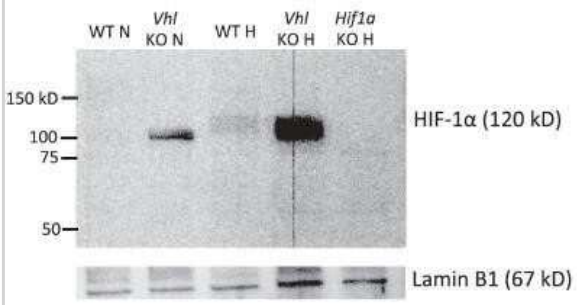
Upregulation of HIF-1alpha in human PCa. Protein expression of HIF-1alpha, VEGF, and GLUT4 were examined with western blot, in PC-3, DU145, and LNCaP cells after various treatments as indicated. Data are expressed as mean +/- SD of seven independent experiments. $p < 0.05 versus RWPE-1 or BPH1 cells or normal tissue. *p < 0.05 versus control group. #p < 0.05 versus si-HIF-1alpha or DDP group. Original blots are shown in Supplementary Figure 5. C: Ctrl; D: DDP; S: si-HIF-1alpha; D/S: DDP/si-HIF-1alpha. Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/s41598-017-07973-4), licensed under a CC-BY license. Image from the standard format of this antibody.

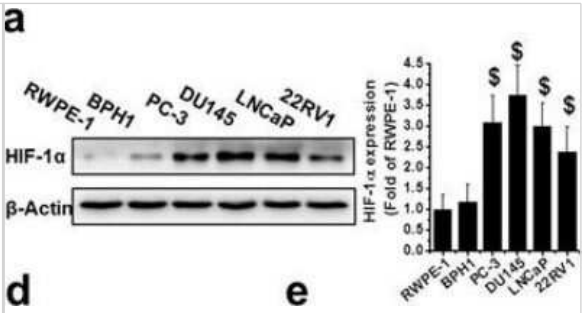
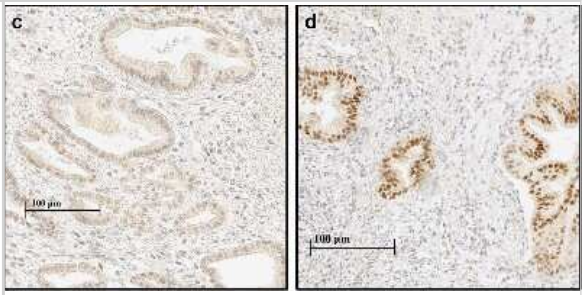
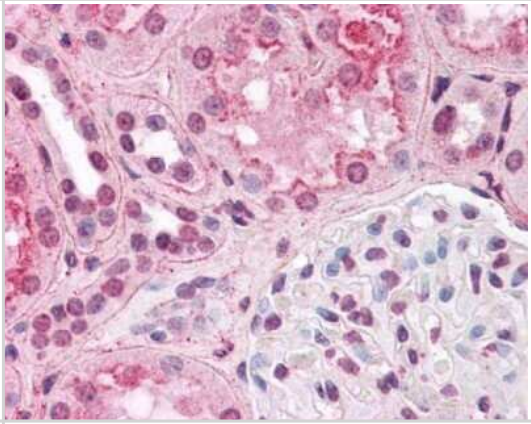
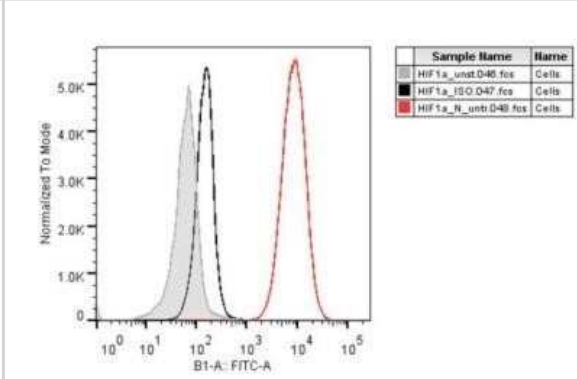


HIF-1 alpha was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line treated with DFOA using 1 ug/mL of mouse anti-HIF-1 alpha monoclonal antibody NB100-105. Cells were stained using a donkey anti-rabbit secondary antibody and counterstained with DAPI (blue). Image from the standard format of this antibody.

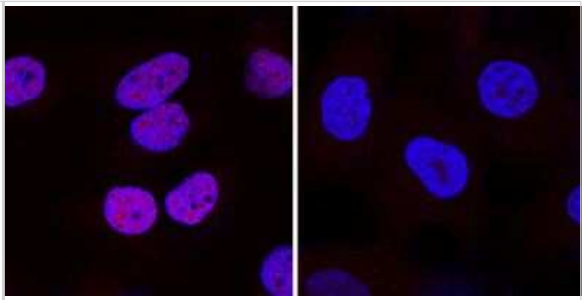


Analysis using the biotin conjugate of NB100-105. Staining of human glioblastoma multiforme.	
Analysis using the Alexa Fluor (R) 488 conjugate of NB100-105. Staining of HIF-1 alpha in multiple myeloma cells: H929 cells (0.5x10^6) were stained with Alexa Fluor 488 (R) conjugated HIF-1 alpha antibody (NB100-105AF488). Image courtesy of Dr. Barbara Muz at Washington University in St. Louis School of Medicine.	
Analysis of HIF-1 alpha in human hepatocytes from cancer patient using anti-HIF-1 alpha antibody NB100-105. Image from verified customer review. Image from the standard format of this antibody.	
Analysis using the HRP conjugate of NB100-105. Detection of 50ug cobalt chloride induced COS-7 nuclear extracts (NB800-PC26) using NB100-105.	

HIF-1 alpha induction by CoCl2 on Caki-1 cell lysate. Image from verified customer review. Image from the standard format of this antibody.	
HIF1alpha/PFKFB3 is upregulated in beta-cells of HIP rats and humans with type 2 diabetes. Representative Western blot of PFKFB3 and HIF1alpha levels in nuclear-enriched- and whole cell extracts from non-diabetic (ND) and T2D donor islets. Data are presented as mean +/- SEM, n = 3 independent biological samples for each group. Statistical significance was analyzed by Student t-test (*p < 0.05, ***p < 0.001) Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/s41467-019-10444-1) licensed under a CC-BY license. Image from the standard format of this antibody.	
L. donovani infection induces HIF-1 alpha expression in CD11chi splenic DCs in an IRF-5 dependent manner. Mice were infected with 2x107 amastigotes intravenously. Immunoblot analysis of HIF-1 alpha expression in CD11c+ cells from C57BL/6 mice (upper panel) and densitometric analysis normalized to beta-actin expression and expressed as fold increase to results obtained with naive mice (lower panel). Image collected and cropped by CiteAb from the following publication (http://dx.plos.org/10.1371/journal.ppat.1004938), licensed under a CC-BY license. Image from the standard format of this antibody.	
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% 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. Image from the standard format of this antibody.	

Upregulation of HIF-1alpha in human Pca. HIF-1alpha protein was detected by western blot in nonmalignant (RWPE-1 and BPH1) and PCa cell lines (PC-3, DU145, LNCaP, and 22RV1) as indicated. Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/s41598-017-07973-4), licensed under a CC-BY license. Image from the standard format of this antibody.	
HIF-1alpha expression in PDAC and adjacent normal pancreatic tissue. PDAC with weak (intensity 1) nuclear and cytoplasmic HIF-1alpha staining (left). PDAC with strong (intensity 3) nuclear and moderate (intensity 2) cytoplasmic HIF-1alpha staining (right)	
Staining of HIF-1 alpha in human kidney using NB100-105. Renal tubular epithelium showed moderate membranous, cytoplasmic and nuclear staining, and glomeruli showed faint to moderate nuclear staining. Image from the standard format of this antibody.	
Analysis using the Alexa Fluor (R) 488 conjugate of NB100-105. Staining of HIF-1 alpha in H929 cells using HIF-1 alpha antibody. Image from verified customer review.	

HIF-1 alpha was detected in immersion fixed DFO treated Hela cells (left) but was not detected in HIF-1 knockout HeLa cells (right) using Mouse Anti-human HIF-1 alpha monoclonal antibody (Catalog #NB100-105) at 25 ug/mL for 3 hours at room temperature. Cells were stained using a NorthernLights (TM) 557-conjugated Donkey Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. Image from the standard format of this antibody.



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