

Product Datasheet

ARNT/HIF-1 beta Antibody Pack

NB100-982

Unit Size: 3 Vials

Store at 4C. Do not freeze.

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NB100-982**ARNT/HIF-1 beta Antibody Pack****Product Information**

Unit Size	3 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 of each: NB100-110 (0.1 mL) and NB100-124 (0.1 mL).
Gene ID	405
Gene Symbol	ARNT
Species	Human, Mouse, Rat, Bovine, Ferret, Sheep
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	See individual datasheets for specificity notes regarding ARNT/HIF-1 beta antibody pack..
Immunogen	See individual datasheets.
Kit Components	NB100-124: ARNT/HIF-1 beta Antibody (H1beta234) - BSA Free, NB100-110: ARNT/HIF-1 beta Antibody, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP]

Product Application Details

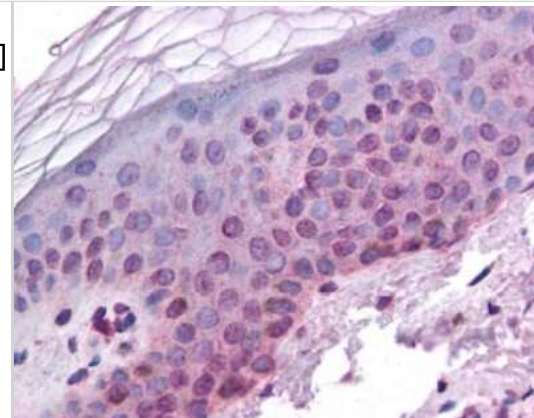
Applications	Western Blot, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunoblotting, Chromatin Immunoprecipitation (ChIP)
Application Notes	See individual datasheets of components for their validated applications

Images

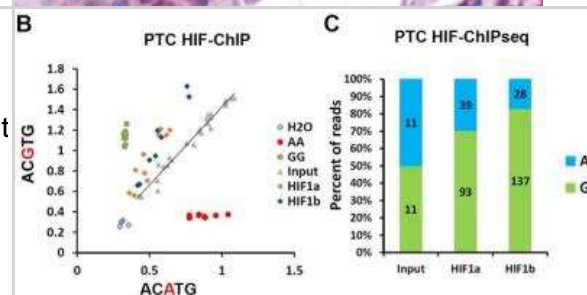
Western Blot: ARNT/HIF-1 beta Antibody Pack [NB100-982] - Analysis of ARNT/HIF-1 beta using ARNT/HIF-1 beta antibody [NB100-110] from ARNT/HIF-1 beta antibody pack [NB100-982] in MCF7 whole cell lysate. Theoretical molecular weight of ARNT/HIF-1 beta is 86.6 kDa, observed molecular weight ~90 kDa.



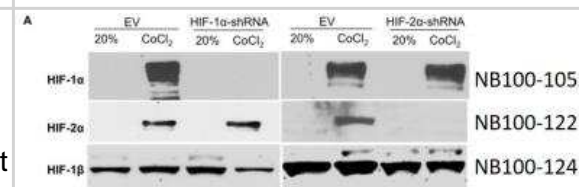
Immunohistochemistry: ARNT/HIF-1 beta Antibody Pack [NB100-982] - Staining of skin, epidermis using ARNT/HIF-1 beta antibody [NB100-110] from the ARNT/HIF-1 beta antibody pack [NB100-982].



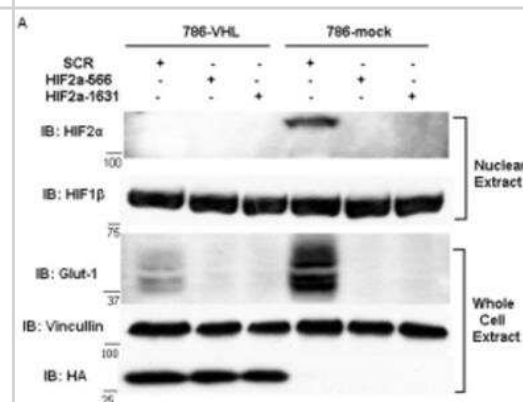
Chromatin Immunoprecipitation: ARNT/HIF-1 beta Antibody Pack [NB100-982] - Allele specific HIF-binding at the rs12814794 associated enhancer. B) Allele-specific qPCR for rs12814794 from DNA fragments isolated in HIF-ChIP experiments (HIF-1A and ARNT/HIF-1 beta) or input DNA from primary renal tubular cells (PTC, n = 4 individuals). DNA from individuals homozygous for the AA or GG genotype were used as positive controls. C) Quantification of the two different alleles (A or G) at rs12814794 in the ChIP-seq reads from HIF-1A and ARNT/HIF-1 beta antibody [NB100-110] immunoprecipitations (PTC #1 Fig 3). Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pgen.1006872](https://doi.org/10.1371/journal.pgen.1006872)) licensed under a CC-BY license.



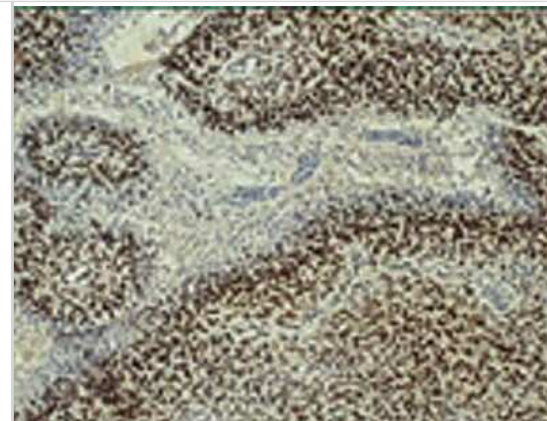
Western Blot: ARNT/HIF-1 beta Antibody Pack [NB100-982] - Expression of CD44 mRNA in genetically engineered MDA-MB-231 cells. (A) Immunoblot analysis of HIF-1a or HIF-2a expression in whole cell extracts from MDA-MB-231 cells stably expressing EV, HIF-1a-shRNA or HIF-2a-shRNA under normoxia or in response to 4 h treatment with 200 μ M CoCl₂. ARNT/HIF-1 beta expression was used as a loading control. Theoretical molecular weight of ARNT/HIF-1 beta is 86.6 kDa. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0044078](https://dx.plos.org/10.1371/journal.pone.0044078)) licensed under a CC-BY license.



Western Blot: ARNT/HIF-1 beta Antibody Pack [NB100-982] - HIF was not the only factor stabilizing activated EGFR in VHL-deficient ccRCC cells. A. Western blot analysis of 786-VHL and 786-mock cells stably expressing shRNA constructs. For HIF2A [NB100-480] and ARNT/HIF-1 beta [NB100-124] analysis, nuclear extracts were generated and analyzed. Anti-HA blot detected HA-VHL. Means and SDs of three separate experiments were shown. Theoretical molecular weight of ARNT/HIF-1 beta is 86.6 kDa, observed molecular weight ~90 kDa. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0023936](https://dx.plos.org/10.1371/journal.pone.0023936)) licensed under a CC-BY license.



Immunohistochemistry: ARNT/HIF-1 beta Antibody Pack [NB100-982] - Staining of human glioblastoma multi-forme utilizing the ARNT/HIF-1 beta antibody[NB100-124] from the ARNT/HIF-1 beta antibody pack [NB100-982].



Publications

Selfridge AC, Cavadas MA, Scholz CC et al. Hypercapnia Suppresses the HIF-dependent Adaptive Response to Hypoxia. J. Biol. Chem. 2016-05-27 [PMID: 27044749] (WB, Human)

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]

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]

Creighton-Gutteridge, M et al. Cell type-specific, topoisomerase II-dependent inhibition of hypoxia-inducible factor-1alpha protein accumulation by NSC 644221. Cancer Res; 13: 1010-1018. 2007-01-01 [PMID: 17289897]



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Products Related to NB100-982

H00000405-P01-10ug	Recombinant Human ARNT/HIF-1 beta GST (N-Term) Protein
NB100-105	HIF-1 alpha Antibody (H1alpha67)
NB100-124	ARNT/HIF-1 beta Antibody (H1beta234) - 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.

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