Product Datasheet

ARNT/HIF-1 beta Antibody (2B10)
NB300-525

Unit Size: 100 uL

Store at -20C. Avoid freeze-thaw cycles.

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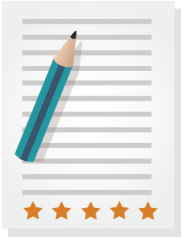
Updated 12/20/2023 v.20.1



NB300-525

ARNT/HIF-1 beta Antibody (2B10)

Product Information	
Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2B10
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS with 1 mg/ml BSA

Product Description	
Host	Mouse
Gene ID	405
Gene Symbol	ARNT
Species	Human, Mouse, Rat, Amphibian, Primate, Zebrafish
Reactivity Notes	Zebrafish reactivity reported in scientific literature (PMID: 8000031). Clawed frog reactivity reported in scientific literature (PMID: 14984034). 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 .
Specificity/Sensitivity	Detects aryl hydrocarbon (Ah) receptor nuclear translocator (ARNT).
Immunogen	Synthetic peptide corresponding to residues C N(771) S Y N N E E F P D L T M F P P F S E(789) of human ARNT.

Product Application Details	
Applications	Western Blot, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500 - 1:3000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:1000, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 5 ug/ml, Immunohistochemistry-Frozen, Gel Super Shift Assays 1:1 - 1:100, Chromatin Immunoprecipitation (ChIP)
Application Notes	May be useful in ELISA, IF, IP, Gel Super Shift Assays, and WB. Use in chromatin immunoprecipitation reported in scientific literature (PMID: 22926560). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 24971453). WB: Detects an approx. 87 kDa protein representing ARNT in COS cell extract. IF: Staining of ARNT in VT{2} cells (Hepa 1-C4T mutant deficient in ARNT function but stably transfected with the full length human ARNT cDNA) using NB 300-525 yields non-nucleolar, nuclear staining only.

Publications

Rahimi Massod, George Jessica, Tang Careen et al. EGFR variant-mediated invasion by enhanced CXCR4 expression through transcriptional and post-translational mechanisms. International Journal of Cancer 2010-01-01 [PMID: 19830694] (WB, Human)

Mandl M, Depping R. ARNT is a potential direct HIF-1 target gene in human Hep3B hepatocellular carcinoma cells. Cancer Cell Int. 2017-08-31 [PMID: 28855849] (WB, Human)

Mandl M, Lieberum MK, Depping R. A HIF-1alpha-driven feed-forward loop augments HIF signalling in Hep3B cells by upregulation of ARNT. Cell Death Dis 2016-06-30 [PMID: 27362802]

Mandl M, Lieberum M, Dunst J, Depping R. The expression level of the transcription factor Aryl hydrocarbon receptor nuclear translocator (ARNT) determines cellular survival after radiation treatment. Radiat Oncol. 2015-11-17 [PMID: 26572229] (WB, Human)

Wolff MH. et al. In vitro characterization of the interaction of hypoxia - inducible factors and estrogen receptors in breast cancer / In vitro Charakterisierung des Zusammenspiels der Hypoxie-Induzierbaren-Faktoren und der Ostrogenrezeptoren beim Mammakarzinom. PhD Thesis, Aus der Sektion Medizin, University of Lubeck, Germany [PI: Univ. Prof. Dr. med. Wolfgang Jelkmann] Link: http://www.students.informatik.uni-luebeck.de/zhb/ediss1485.pdf Thesis. 2015-01-01 (WB, Human)

Thomas S, Harding MA, Smith SC et al. CD24 Is an Effector of HIF-1-Driven Primary Tumor Growth and Metastasis Cancer Res 2012-10-22 [PMID: 22926560] (Chemotaxis, Human)

Singh KP, Wyman A, Casado FL et al. Treatment of mice with the Ah receptor agonist human carcinogen dioxin results in altered numbers function of hematopoietic stem cells. Carcinogenesis;30(1):11-19. 2009-01-01 [PMID: 18820284]

Amir S, Wang R, Simons JW et al. Sept9_v1 upregulates HIF-1 by preventing its rack1-mediated degradation. J Biol Chem;284(17):11142-51. 2009-04-24 [PMID: 7526149]

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

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