

Product Datasheet

AHR Antibody NB100-128

Unit Size: 1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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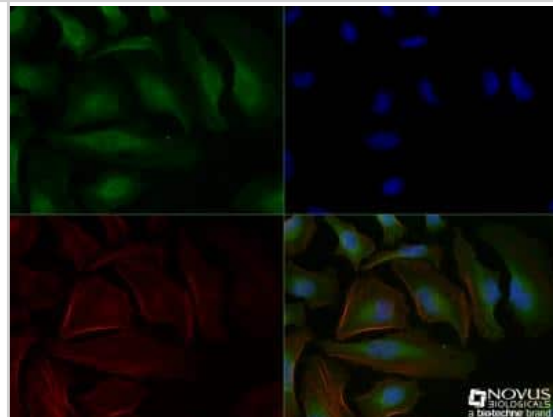
NB100-128

AHR Antibody

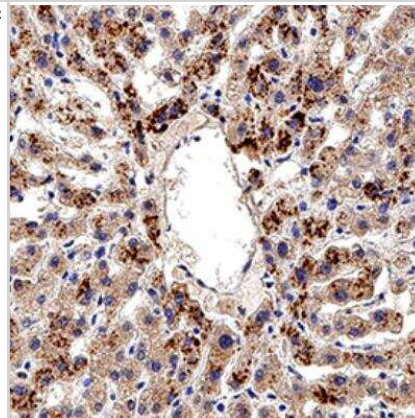
Product Information	
Unit Size	1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Purity	Unpurified
Buffer	Whole antisera
Product Description	
Host	Goat
Gene ID	196
Gene Symbol	AHR
Species	Human, Mouse, Rat
Immunogen	N-terminal sequence of Aryl hydrocarbon Receptor purified from C57BL/6J mice. [UniProt# P30561]
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot reported in scientific literature (PMID 31351871; 24302727; 3999131), Chromatin Immunoprecipitation reported in scientific literature (PMID 3999131), Immunohistochemistry 1:100 - 1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:100 - 1:200, Gel Super Shift Assays
Application Notes	Suggested working dilution for Gel Super Shift Assay (EMSA) is 4ul of antibody to a 15 ul final volume of EMSA sample. The current lot of this antibody did not work in WB to our QC Team's expectations.

Images

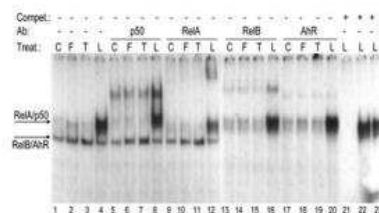
Immunocytochemistry/Immunofluorescence: AHR Antibody [NB100-128]
 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti AHR [NB100-128] at a 1:100 dilution overnight at 4C and detected with an anti-goat DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: AHR Antibody [NB100-128] - Analysis of FFPE human liver using 1:200 conc. of AHR antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Staining was performed by Histowiz.



Gel Super Shift Assays: AHR Antibody [NB100-128] - EMSA validation of AHR antibody on U937 cells nuclear protein. Image submitted by verified customer - see review for protocol details.



Publications

Gong X, Ye W, Zhou H et al. RanBPM is an acetylcholinesterase-interacting protein that translocates into the nucleus during apoptosis. RanBPM is an acetylcholinesterase-interacting protein that translocates into the nucleus during apoptosis. [PMID: 19902122]

Urzi O, Cafora M, Ganji N et al. Lemon-derived nanovesicles achieve antioxidant and anti-inflammatory effects activating the AhR/Nrf2 signaling pathway iScience 2023-07-01 [PMID: 37426343] (Western Blot, Human)

Du J, Li S, Gu Y et al. Prevotella histicola inhibits neuroinflammation-induced activation of the Toll-like receptor 4 pathway by promoting the release of interleukin 10 from FoxP3+ Treg cells Research Square 2022-06-21 (IF/IHC, ICC/IF, Human)

Pambianchi E, Hagenberg Z, Pecorelli A Et al. Alaskan Bog Blueberry (Vaccinium uliginosum) Extract as an Innovative Topical Approach to Prevent UV-Induced Skin Damage Cosmetics 2021-11-27 (IHC-P, Human)

Jiang J, Zhu J, Liu Q et al. Role of DNA methylation-related chromatin remodeling in aryl hydrocarbon receptor-dependent regulation of T-2 toxin highly inducible Cytochrome P450 1A4 gene FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2021-05-01 [PMID: 33788981]

Liu Q, Wen J, Zhu J et al. Aromatic hydrocarbon receptor regulates chicken cytochrome P450 1A5 transcription: A novel insight into T-2 toxin-induced gene expression and cytotoxicity in LMH cells Biochem. Pharmacol. 2019-07-25 [PMID: 31351871] (WB)

Fukuda I, Nishiumi S, Yabushita Y et al. A new southwestern chemistry-based ELISA for detection of aryl hydrocarbon receptor transformation: application to the screening of its receptor agonists and antagonists. J Immunol Methods 2004-04-01 [PMID: 15099767] (Human)

Vogel CF, Khan EM, Leung PS et al. Cross-talk between Aryl Hydrocarbon Receptor and the inflammatory response: a Role for NF- κ B. J Biol Chem. 2013-12-03 [PMID: 24302727] (WB, Human, Mouse)

Vogel CF, Wu D, Goth SR et al. Aryl hydrocarbon receptor signaling regulates NF- κ B RelB activation during dendritic-cell differentiation. Immunol Cell Biol. 2013-09-03 [PMID: 23999131] (EMSA, WB, Mouse)

Vogel CF, Li W, Wu D et al. Interaction of aryl hydrocarbon receptor and NF- κ B subunit RelB in breast cancer is associated with interleukin-8 overexpression. Arch Biochem Biophys 2011-08-01 [PMID: 21640702] (IF/IHC, Human)

Fisher, M et al. Combined screening of thymocytes using apoptosis-specific cDNA array and promoter analysis yields novel gene targets mediating TCDD-induced toxicity. Toxicol Sci;78(1):116-24. 2004-03-01 [PMID: 14718646] (Chemotaxis, Mouse)

Tsuchiya, Y et al. Critical enhancer region to which AhR/ARNT and Sp1 bind in the human CYP1B1 gene. J Biochem;133(5):583-92. 2003-05-01 [PMID: 12801909] (GS, Human)

More publications at <http://www.novusbio.com/NB100-128>



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Products Related to NB100-128

NBL1-07403	AHR Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
H00000196-Q01-10ug	Recombinant Human AHR GST (N-Term) Protein

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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