

Product Datasheet

AHR Antibody (RPT9) - BSA Free NB300-515

Unit Size: 100 uL

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

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NB300-515

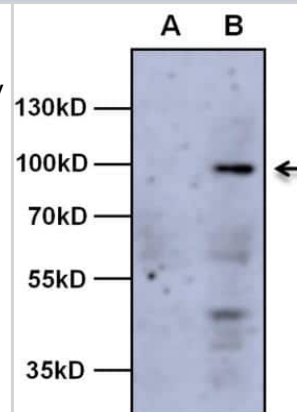
AHR Antibody (RPT9) - BSA Free

Product Information	
Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	RPT9
Preservative	0.05% Sodium Azide
Isotype	IgG3 Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	196
Gene Symbol	AHR
Species	Human, Mouse, Rat
Reactivity Notes	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 the Aryl Hydrocarbon Receptor (AHR).
Immunogen	Synthetic peptide corresponding to residues R(12) K R R K P(17) V(22) K P I P A E G I K(31) of mouse AhR.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:50, ELISA 1:100 - 1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10 - 1:100, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Frozen 1:10 - 1:500, Gel Super Shift Assays 1:1 - 1:100, Chromatin Immunoprecipitation (ChIP) 1:100
Application Notes	ELISA use reported in the literature (PMID: 10413464). IP: A single ~95 kDa protein representing AHR from Hepa 1 cytosol. IHC: Staining of AHR in rat liver results in strong cytoplasmic and some nuclear staining.

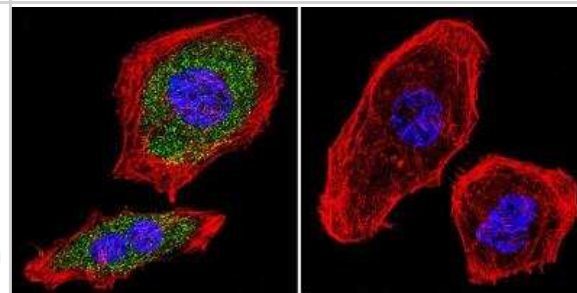


Images

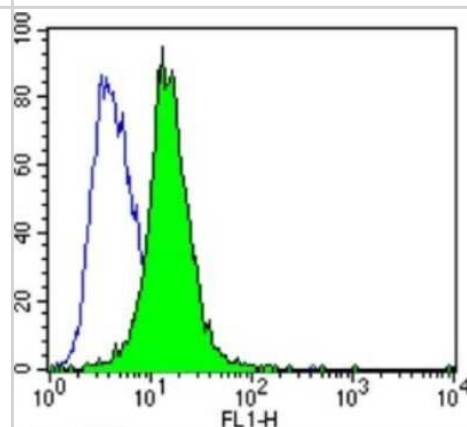
Western Blot: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor was performed by loading 20 ug of HEK293 lysate overexpressing Aryl Hydrocarbon Receptor (right lane B) or empty vector control (left lane A) and 10ul of PageRuler Plus Prestained Protein Ladder onto a 4-20% Tris-Glycine polyacrylamide gel.



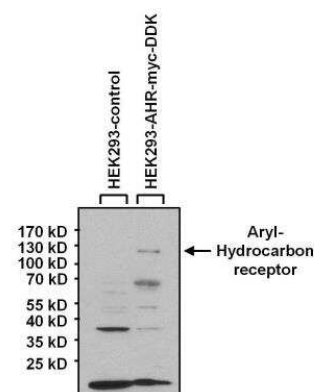
Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor using Aryl Hydrocarbon Receptor Monoclonal Antibody (RPT9) shows staining in U251 Cells. Aryl Hydrocarbon Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Aryl Hydrocarbon Receptor at a dilution of 1:20 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



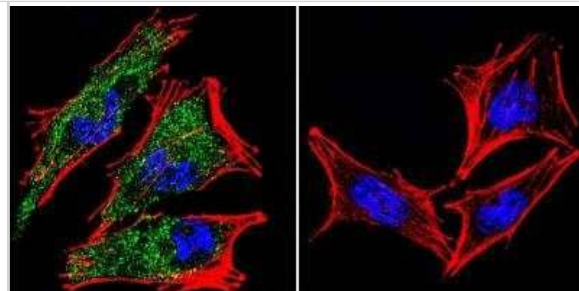
Flow Cytometry: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor in NIH/3T3 cells compared to an isotype control (blue).



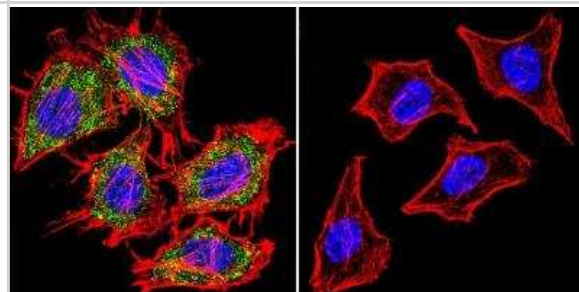
Western Blot: AHR Antibody (RPT9) [NB300-515] - Analysis of 40 ug of HEK293 lysate overexpressing Aryl Hydrocarbon Receptor (right lane) or empty vector control (left lane) and 10ul of PageRuler Prestained Protein Ladder.



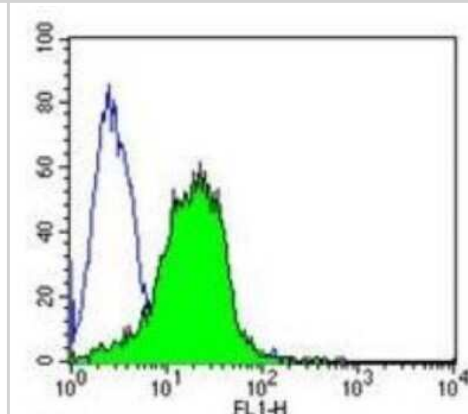
Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor using Aryl Hydrocarbon Receptor Monoclonal Antibody (RPT9) shows staining in A2058 Cells. Aryl Hydrocarbon Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Aryl Hydrocarbon Receptor at a dilution of 1:20 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



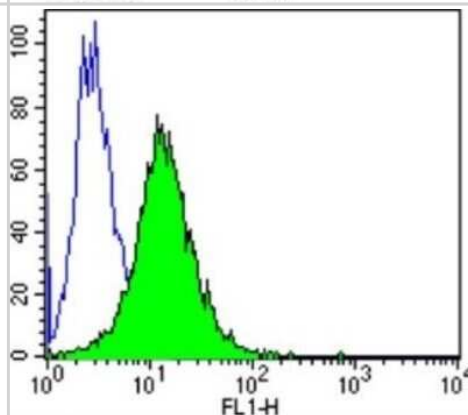
Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor using Aryl Hydrocarbon Receptor Monoclonal Antibody (RPT9) shows staining in Hela Cells. Aryl Hydrocarbon Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Aryl Hydrocarbon Receptor at a dilution of 1:20 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



Flow Cytometry: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor in Hela cells compared to an isotype control (blue).



Flow Cytometry: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor in PC-3 cells compared to an isotype control (blue).



Publications

Huang J, Wang YN, Zhou Y. Constitutive aryl hydrocarbon receptor facilitates the regenerative potential of mouse bone marrow mesenchymal stromal cells World Journal of Stem Cells 2023-08-26 [PMID: 37700822]

Brauze D, Kiwerska K, Bednarek K, et al. Expression of Serpin Peptidase Inhibitor B2 (SERPINB2) is regulated by Aryl hydrocarbon receptor (AhR) Chem. Biol. Interact. 2019-06-07 [PMID: 31176714] (Chemotaxis, Human)

Ogura J, Miyauchi S, Shimono K et al. Carbidopa is an activator of aryl hydrocarbon receptor with potential for cancer therapy. Biochem. J. 2017-09-28 [PMID: 28963435] (WB)

Li S, Heller JJ, Bostick JW et al. Ikaros Inhibits Group 3 Innate Lymphoid Cell Development and Function by Suppressing the Aryl Hydrocarbon Receptor Pathway Immunity 2016-07-19 [PMID: 27438771] (WB, Human)

Chen YH, Beischlag TV, Kim JH et al. Role of GAC63 in transcriptional activation mediated by the aryl hydrocarbon receptor. J Biol Chem. 2006-05-01 [PMID: 16513642]

Savouret JF, Antenos M, Quesne M et al. 7-ketocholesterol is an endogenous modulator for the arylhydrocarbon receptor. J Biol Chem. 2001-02-01 [PMID: 11042205]

Meyer BK, Perdew GH. Characterization of the AhR-hsp90-XAP2 core complex and the role of the immunophilin-related protein XAP2 in AhR stabilization. Biochemistry. 1999-07-01 [PMID: 10413464]

Jaffrain-Rea M-L, Angelini M, Gargano D et al. Expression of aryl hydrocarbon receptor (AHR) AHR-interacting protein in pituitary adenomas: pathological clinical implications. Endocr Relat Cancer;16(3):1029-1043. 2009-01-01 [PMID: 19556287]





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Products Related to NB300-515

NBL1-07403	AHR Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96978	Mouse IgG3 Kappa Light Chain Isotype Control (MG3K)

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