

# Product Datasheet

## AHR Antibody (RPT9) - BSA Free NB300-515-0.025 ml

Unit Size: 0.025 ml

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

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB300-515-0.025 ml**

AHR Antibody (RPT9) - BSA Free

| Product Information |  |
|---------------------|--|
| Unit Size           | 0.025 ml                                 |
| 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                                      |

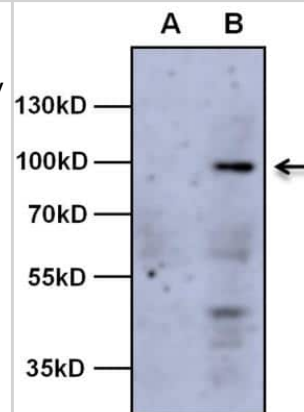
| Product Description     |   |
|-------------------------|---|
| Description             | Novus Biologicals Mouse AHR Antibody (RPT9) - BSA Free (NB300-515) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF, IP and ChIP. Anti-AHR Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| 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.   |

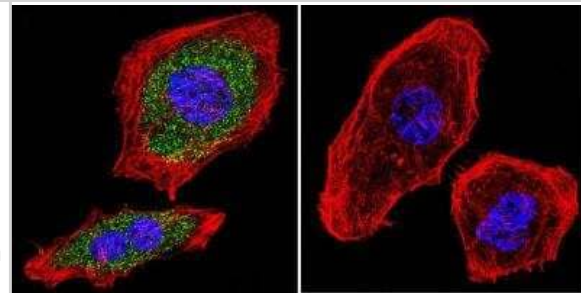


## Images

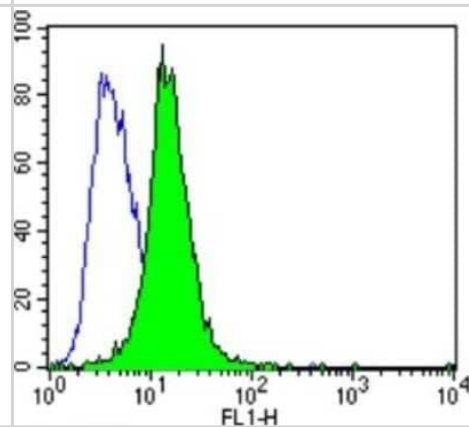
Western Blot: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor was performed by loading 20 ug of HEK293 lysate overexpressing Aryl Hydrocarbon Receptor (right lane B) or empty vector control (left lane A) and 10ul of PageRuler Plus Prestained Protein Ladder onto a 4-20% Tris-Glycine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



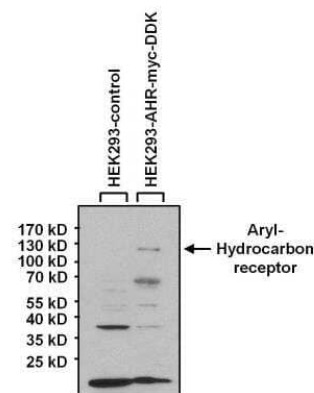
Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor using Aryl Hydrocarbon Receptor Monoclonal Antibody (RPT9) shows staining in U251 Cells. Aryl Hydrocarbon Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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.



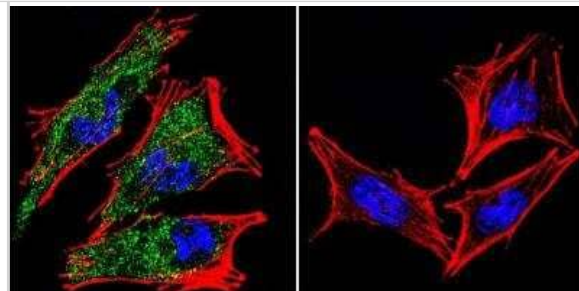
Flow Cytometry: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor in NIH/3T3 cells compared to an isotype control (blue).



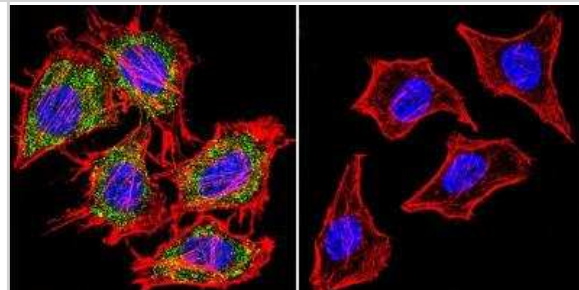
Western Blot: AHR Antibody (RPT9) [NB300-515] - Analysis of 40 ug of HEK293 lysate overexpressing Aryl Hydrocarbon Receptor (right lane) or empty vector control (left lane) and 10ul of PageRuler Prestained Protein Ladder.



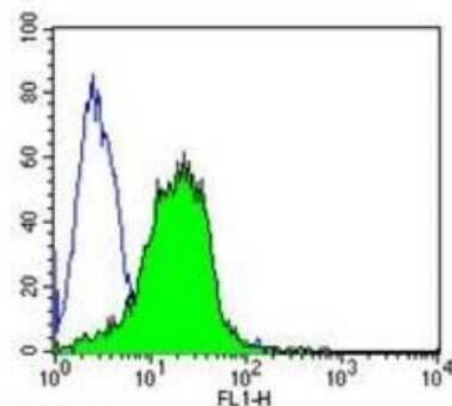
Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor using Aryl Hydrocarbon Receptor Monoclonal Antibody (RPT9) shows staining in A2058 Cells. Aryl Hydrocarbon Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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.



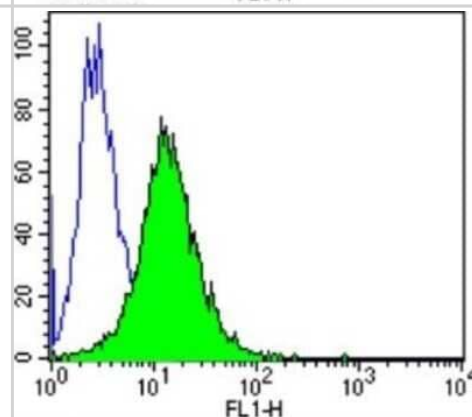
Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT9) [NB300-515] - Analysis of Aryl Hydrocarbon Receptor using Aryl Hydrocarbon Receptor Monoclonal Antibody (RPT9) shows staining in Hela Cells. Aryl Hydrocarbon Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) 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]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **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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