

# Product Datasheet

## AHR Antibody (RPT1) NB300-530

Unit Size: 100uL

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

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 2

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**NB300-530**

AHR Antibody (RPT1)

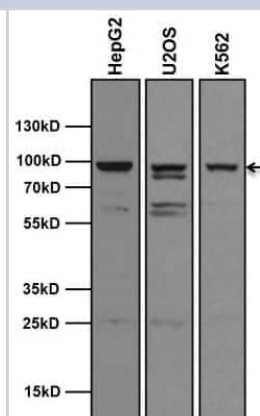
Product Information	
Unit Size	100uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	RPT1
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS, 1mg/mL BSA

Product Description	
Description	Novus Biologicals Mouse AHR Antibody (RPT1) (NB300-530) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-AHR Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	196
Gene Symbol	AHR
Species	Human, Mouse, Rat
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 human AhR.

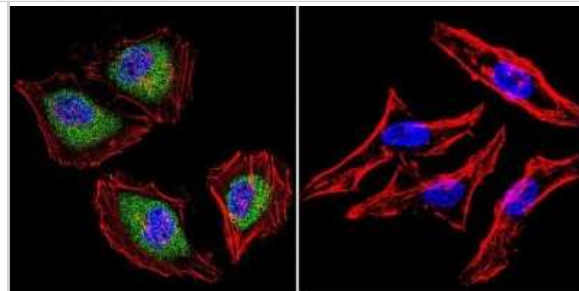
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500 - 1:2000, Immunohistochemistry 1:10 - 1:100, Immunocytochemistry/ Immunofluorescence 1:100 - 1:1000, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:10 - 1:100
Application Notes	WB: Detects an approx. 95 kDa protein representing AhR from Hepa 1 cytosol. Although ab2770 can be used in IP procedures, clone RPT9 is recommended for this procedure.

**Images**

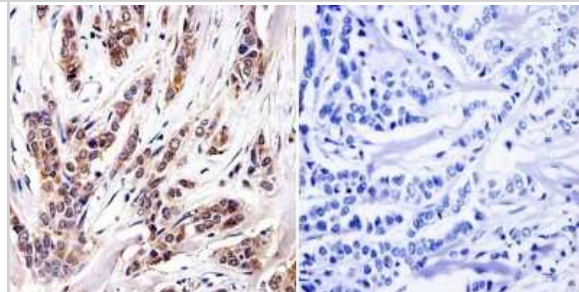
Western Blot: AHR Antibody (RPT1) [NB300-530] - Analysis of 20ug of HepG2, U2OS, and K562 whole cell lysates and 5uL of PageRuler Plus Prestained Protein Ladder per well.



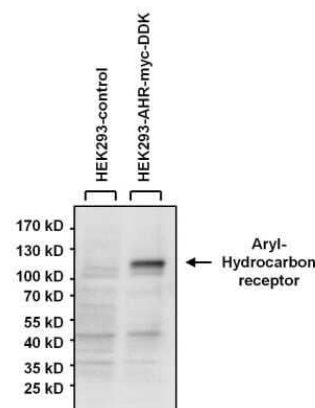
**Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT1) [NB300-530]** - Analysis of Aryl Hydrocarbon Receptor in HeLa cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Aryl Hydrocarbon Receptor monoclonal antibody at a dilution of 1:200 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Aryl Hydrocarbon Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



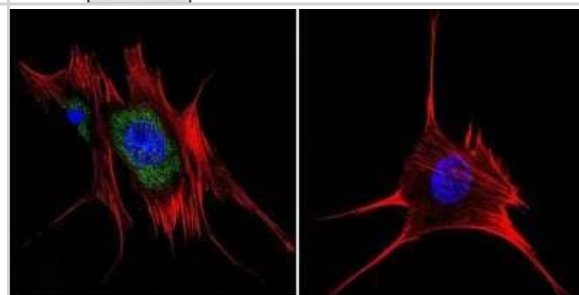
**Immunohistochemistry-Paraffin: AHR Antibody (RPT1) [NB300-530]** - Cancer biopsies of deparaffinized Human breast carcinoma tissue at a dilution of 1:100.



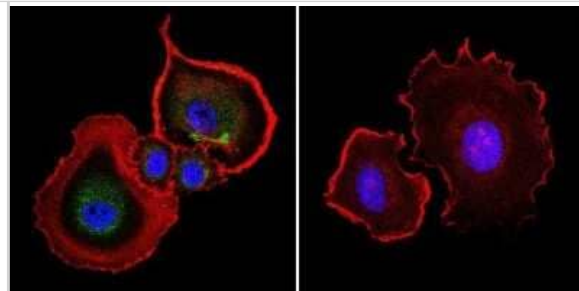
**Western Blot: AHR Antibody (RPT1) [NB300-530]** - Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with an Aryl Hydrocarbon Receptor monoclonal antibody at a dilution of 1:1000 overnight at 4C on a rocking platform, washed in TBS-0.1% Tween-20, and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:20,000 for 1 hour.



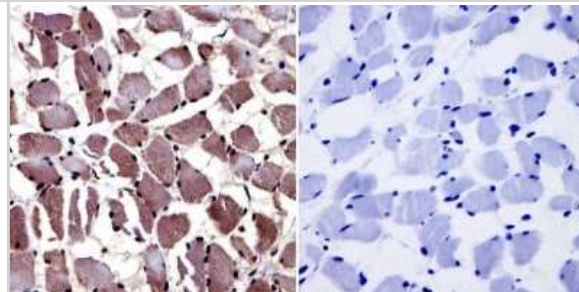
**Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT1) [NB300-530]** - Analysis of Aryl Hydrocarbon Receptor in NIH-3T3 cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Aryl Hydrocarbon Receptor monoclonal antibody at a dilution of 1:200 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Aryl Hydrocarbon Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



Immunocytochemistry/Immunofluorescence: AHR Antibody (RPT1) [NB300-530] - Analysis of Aryl Hydrocarbon Receptor in MCF-7 cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Aryl Hydrocarbon Receptor monoclonal antibody at a dilution of 1:100 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Aryl Hydrocarbon Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



Immunohistochemistry-Paraffin: AHR Antibody (RPT1) [NB300-530] - Normal biopsies of deparaffinized Human skeletal muscle tissue at a dilution of 1:20.



## Publications

Terzuoli Erika, Puppo Maura, Rapisarda Annamaria et al. Aminoflavone, a ligand of the aryl hydrocarbon receptor, inhibits HIF-1alpha expression in an AhR-independent fashion. *Cancer Res* 2010-01-01 [PMID: 20736373] (WB, Mouse)

Formosa R, Borg J, Vassallo J. Aryl hydrocarbon receptor (AHR) is a potential tumour suppressor in Pituitary Adenomas. *Endocr. Relat. Cancer*. 2017-06-25 [PMID: 28649092] (WB, Rat)



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### **Products Related to NB300-530**

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NBL1-07403	AHR Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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