

For Research Use Only

# AHR Polyclonal antibody, PBS Only

Catalog Number:30242-1-PBS



## Basic Information

<b>Catalog Number:</b> 30242-1-PBS	<b>GenBank Accession Number:</b> BC070080	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 196	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35869	
<b>Isotype:</b> IgG	<b>Full Name:</b> aryl hydrocarbon receptor	
<b>Immunogen Catalog Number:</b> AG32335	<b>Calculated MW:</b> 848 aa, 96 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

**Species Specificity:**  
human

## Background Information

The aryl hydrocarbon receptor (Ahr) is a ligand-activated transcription factor that has been largely regarded as a mediator of xenobiotic metabolism [PMID:18483242]. It plays a part role in physiologic activities, including attenuation of the acute phase response, cytokine signaling, T helper (TH)17 immune cell differentiation, modulation of NF- $\kappa$ B activity, and regulation of hormonal signaling [PMID:20423157,18540824]. It also mediates transcription factor sequestering away from a gene promoter or tethering of the Ahr to a transcription factor on a promoter. AHR calculated molecular masses differ by <10%, compared with the apparent molecular masses predicted from SDS-PAGE for the two receptors (105 and 95 kDa, respectively). (PMID: 8246913)

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

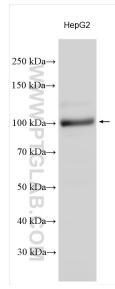
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

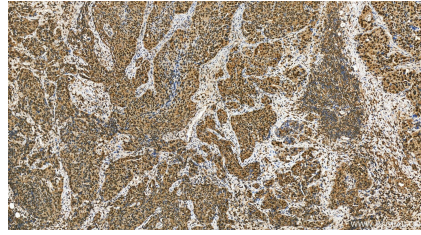
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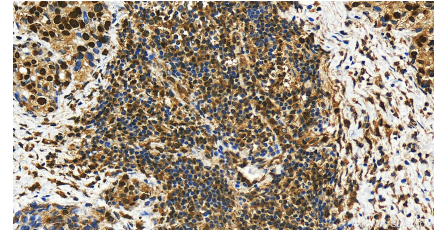
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30242-1-AP (AHR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 30242-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 30242-1-AP (AHR antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 30242-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 30242-1-AP (AHR antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 30242-1-PBS in a different storage buffer formulation.