

For Research Use Only

# AHR Monoclonal antibody

Catalog Number: 67785-1-Ig

Featured Product

23 Publications



## Basic Information

<b>Catalog Number:</b> 67785-1-Ig	<b>GenBank Accession Number:</b> BC070080	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop and 541 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 196	<b>CloneNo.:</b> 2D1F9
<b>Source:</b> Mouse	<b>Full Name:</b> aryl hydrocarbon receptor	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:200-1:500 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 848 aa, 96 kDa	
<b>Immunogen Catalog Number:</b> AG28935	<b>Observed MW:</b> 105-110 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

FC, IF, IHC, WB

### Species Specificity:

Human, mouse, rat

### Cited Species:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A549 cells, LNCaP cells, MCF-7 cells, HEK-293 cells, HSC-T6 cells, 4T1 cells, PC-3 cells, HeLa cells, Caco-2 cells, HepG2 cells

**IHC:** human breast cancer tissue,

**IF:** human breast cancer tissue, mouse testis tissue

## 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-κB 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)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jingsong Yu	36153645	Cell Biol Int	WB
Chengcheng Yang	34664583	Food Funct	WB
Dan Zhang	35716470	Phytomedicine	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

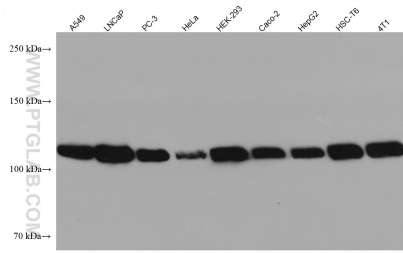
For technical support and original validation data for this product please contact:

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

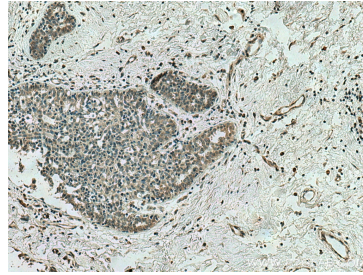
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

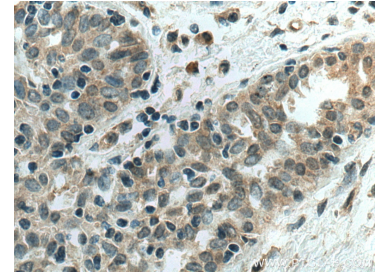
## Selected Validation Data



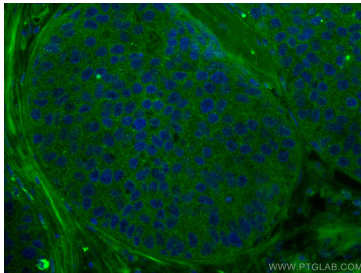
Various lysates were subjected to SDS PAGE followed by western blot with 67785-1-Ig (AHR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



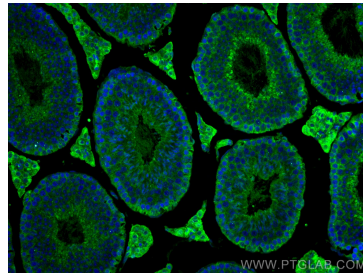
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67785-1-Ig (AHR antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67785-1-Ig (AHR antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using AHR antibody (67785-1-Ig, Clone: 2D1F9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Blue (DAPI).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using AHR antibody (67785-1-Ig, Clone: 2D1F9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).