

For Research Use Only

# AHR Monoclonal antibody

Catalog Number: 67785-1-Ig

Featured Product

47 Publications



## Basic Information

Catalog Number:

67785-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG28935

GenBank Accession Number:

BC070080

GeneID (NCBI):

196

UNIPROT ID:

P35869

Full Name:

aryl hydrocarbon receptor

Calculated MW:

848 aa, 96 kDa

Observed MW:

105-110 kDa

Purification Method:

Protein A purification

CloneNo.:

2D1F9

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:200-1:500

IF-P 1:200-1:800

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

**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-P: human breast cancer tissue, mouse testis tissue

IF/ICC: HepG2 cells,

## 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)

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

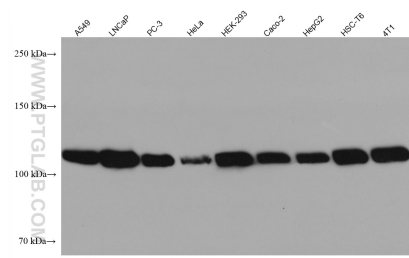
For technical support and original validation data for this product please contact:

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

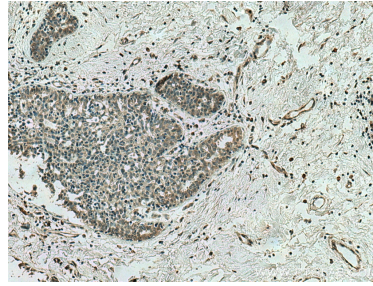
E: proteintech@ptglab.com  
W: ptglab.com

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

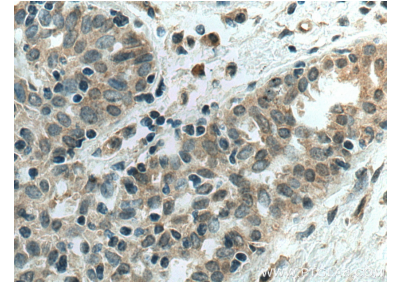
## Selected Validation Data



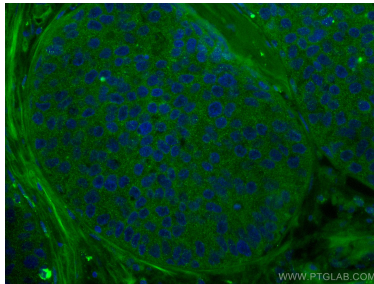
Various lysates were subjected to SDS PAGE followed by western blot with 67785-1-Ig (AHR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



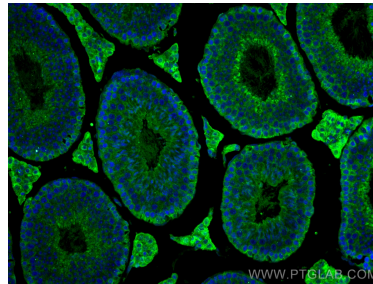
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67785-1-Ig (AHR antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



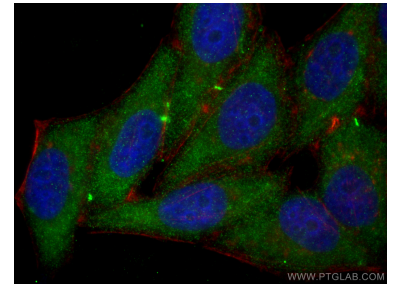
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67785-1-Ig (AHR antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using AHR antibody (67785-1-Ig, Clone: 2D1F9) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red).