

For Research Use Only

AHR Monoclonal antibody

Catalog Number: 67785-1-Ig

Featured Product

45 Publications



Basic Information

Catalog Number: 67785-1-Ig	GenBank Accession Number: BC070080	Purification Method: Protein A purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 196	CloneNo.: 2D1F9
Source: Mouse	UNIPROT ID: P35869	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:500 IF-P 1:200-1:800 IF/ICC 1:400-1:1600
Isotype: IgG2b	Full Name: aryl hydrocarbon receptor	
Immunogen Catalog Number: AG28935	Calculated MW: 848 aa, 96 kDa	
	Observed MW: 105-110 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, Cell treatment

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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-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

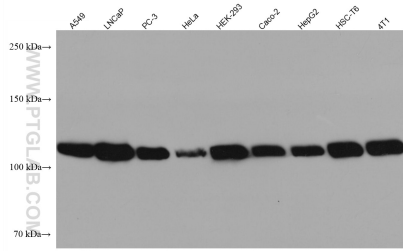
For technical support and original validation data for this product please contact:

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

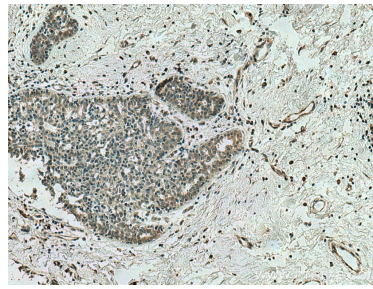
E: proteintech@ptglab.com
W: ptglab.com

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

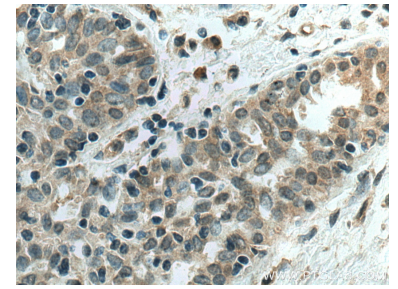
Selected Validation Data



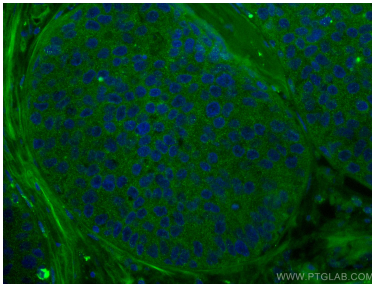
Various lysates were subjected to SDS PAGE followed by western blot with 67785-1-Ig (AHR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



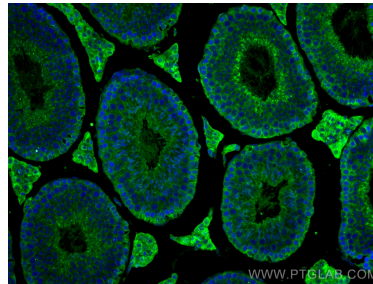
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67785-1-Ig (AHR antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



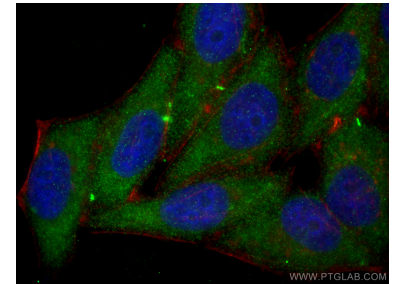
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67785-1-Ig (AHR antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).