

For Research Use Only

AHR Polyclonal antibody

Catalog Number: 17840-1-AP

Featured Product

24 Publications



Basic Information

Catalog Number:

17840-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12193

GenBank Accession Number:

BC070080

GeneID (NCBI):

196

Full Name:

aryl hydrocarbon receptor

Calculated MW:

848 aa, 96 kDa

Observed MW:

105 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

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 : MCF7 cells, HEK-293 cells, MCF-7 cells, NIH/3T3 cells, PC-3 cells

IP : PC-3 cells,

IHC : human lung cancer tissue, mouse small intestine tissue, human brain 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
Jie Xiong	32941808	Exp Cell Res	WB
Yingying Xu	33092444	Cell Cycle	WB
Luna Ge	31781261	Evid Based Complement Alternat Med	WB,IF

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

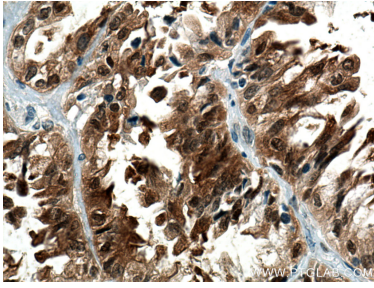
For technical support and original validation data for this product please contact:

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

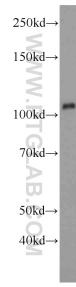
E: proteintech@ptglab.com
W: ptglab.com

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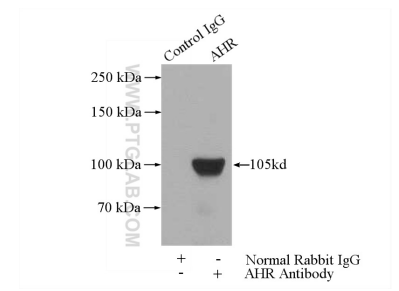
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 17840-1-AP (AHR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



MCF7 cells were subjected to SDS PAGE followed by western blot with 17840-1-AP (AHR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-AHR (IP:17840-1-AP, 4ug; Detection:17840-1-AP 1:500) with PC-3 cells lysate 1880ug.