For Research Use Only

AHR Polyclonal antibody

Catalog Number:17840-1-AP Featured Product 53 Publications

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Basic Information

Catalog Number:
17840-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12193

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:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC, IF, CoIP, ChIP

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 : HeLa cells, HepG2 cells, K-562 cells, MCF-7 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
Susu Lin	36169685	Psychopharmacology (Berl)	WB
Rongyao Liang	34555451	J Ethnopharmacol	WB
Jie Xiong	32941808	Exp Cell Res	WB

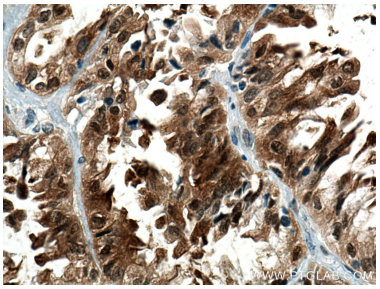
Storage

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

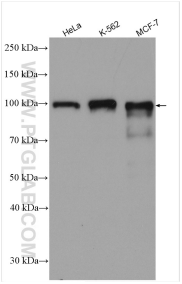
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

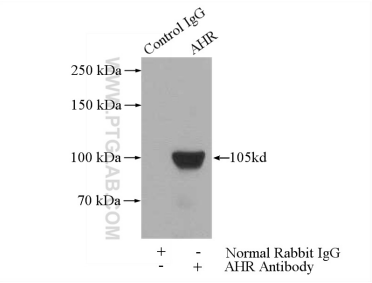
Selected Validation Data



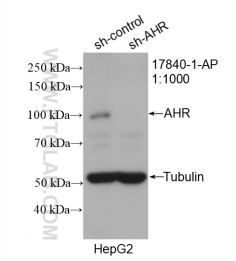
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 17840-1-AP (AHR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 17840-1-AP (AHR antibody) at dilution of 1:2000 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.



WB result of AHR antibody (17840-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AHR transfected HepG2 cells.