

For Research Use Only

# AHR Polyclonal antibody

Catalog Number: 17840-1-AP

Featured Product

49 Publications



## Basic Information

**Catalog Number:**

17840-1-AP

**Concentration:**

500 µg/ml

**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 µg 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:

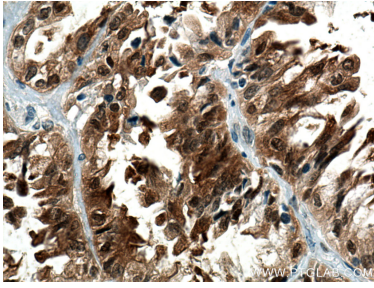
T: 4006900926

E: Proteintech-CN@ptglab.com

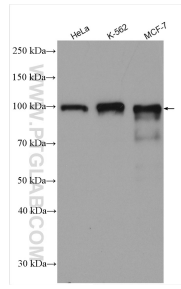
W: ptgcn.com

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

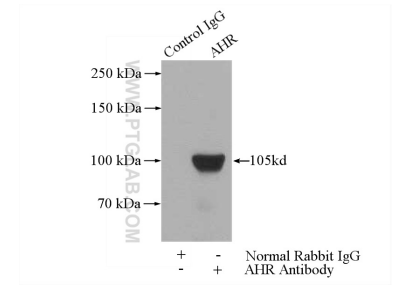
## Selected Validation Data



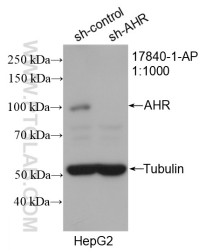
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 17840-1-AP (AHR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.