

For Research Use Only

# AHR Polyclonal antibody

Catalog Number: 28727-1-AP

Featured Product

22 Publications



## Basic Information

### Catalog Number:

28727-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### 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:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB : A431 cells, HepG2 cells

IP : PC-3 cells, HepG2 cells

IHC : mouse small intestine tissue, human pancreas cancer tissue

IF/ICC : A431 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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
Ting Hao	36446468	Cell Prolif	WB,IF
Han Li	35595219	J Ethnopharmacol	IHC
Bin-Jie Zhang	35364431	Int Immunopharmacol	WB,IHC

## 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

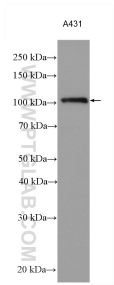
For technical support and original validation data for this product please contact:

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

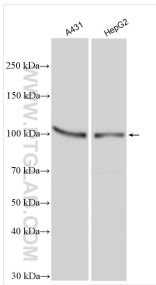
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

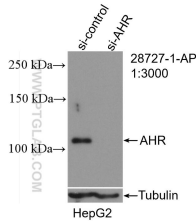
Selected Validation Data



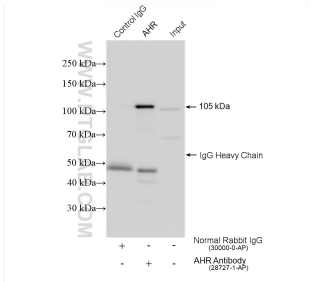
Various lysates were subjected to SDS PAGE followed by western blot with 28727-1-AP (AHR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



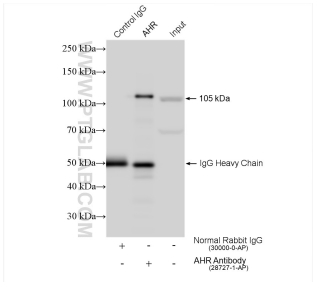
Various lysates were subjected to SDS PAGE followed by western blot with 28727-1-AP (AHR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



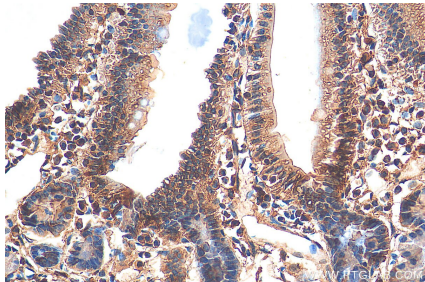
WB result of AHR antibody (28727-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AHR transfected HepG2 cells.



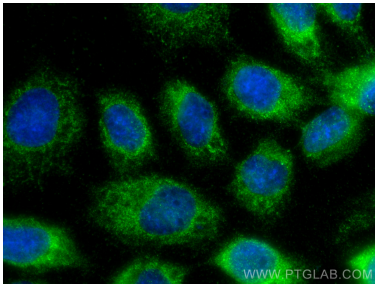
IP result of anti-AHR (IP:28727-1-AP, 4ug; Detection:28727-1-AP 1:5000) with PC-3 cells lysate 1480 ug.



IP result of anti-AHR (IP:28727-1-AP, 4ug; Detection:28727-1-AP 1:5000) with HepG2 cells lysate 1360 ug.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 28727-1-AP (AHR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using AHR antibody (28727-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).