

For Research Use Only

# ARNT/HIF-1 beta Polyclonal antibody

Catalog Number: 14105-1-AP

Featured Product

24 Publications



## Basic Information

### Catalog Number:

14105-1-AP

### Concentration:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5238

### GenBank Accession Number:

BC060838

### GeneID (NCBI):

405

### UNIPROT ID:

P27540

### Full Name:

aryl hydrocarbon receptor nuclear translocator

### Calculated MW:

416 aa, 46 kDa, 87 kDa

### Observed MW:

87 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

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

IHC: 1:50-1:500

IF/ICC: 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, pig

### Positive Controls:

WB : HEK-293 cells, HeLa cells, HepG2 cells

IP : HepG2 cells,

IHC : mouse embryo 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

HIF1B(HIF-1 beta), also named as ARNT, is a 789 amino acid protein, which forms a heterodimer with AHR, AHRR, HIF1A and EPAS1/HIF2A as well as with other bHLH proteins. HIF1B is Required for activity of the Ah (dioxin) receptor. This protein is required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding. The heterodimer with HIF1A or EPAS1/HIF2A functions as a transcriptional regulator of the adaptive response to hypoxia

## Notable Publications

Author	Pubmed ID	Journal	Application
Yizhi Zhan	36258210	BMC Med	WB,IF
Qi Su	34792729	Mol Biol Rep	WB
Yang Songwei S	24237301	J Interferon Cytokine Res	

## 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:

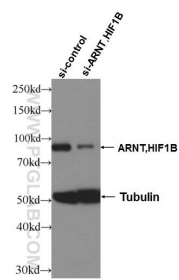
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

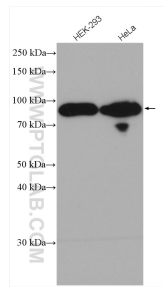
W: [ptgcn.com](http://ptgcn.com)

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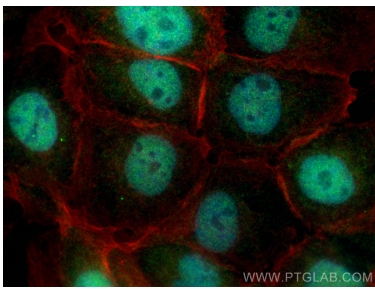
Selected Validation Data



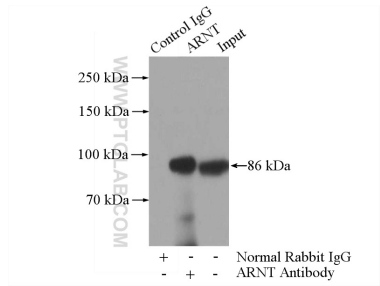
WB result of ARNT/HIF-1 beta antibody (14105-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARNT, HIF1B transfected HeLa cells.



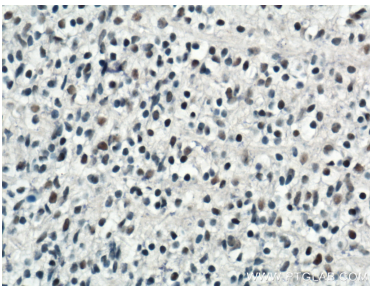
Various lysates were subjected to SDS PAGE followed by western blot with 14105-1-AP (ARNT/HIF-1 beta antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using ARNT/HIF-1 beta antibody (14105-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



IP result of anti-ARNT/HIF-1 beta (IP:14105-1-AP, 4ug; Detection:14105-1-AP 1:1000) with HepG2 cells lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 14105-1-AP (ARNT/HIF-1 beta Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).