

For Research Use Only

# ARNT, HIF1B Polyclonal antibody

Catalog Number: 14105-1-AP

Featured Product

17 Publications



## Basic Information

**Catalog Number:**

14105-1-AP

**Size:**

500 µg/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:**

86 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

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

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, IP, WB

**Species Specificity:**

human, mouse

**Cited Species:**

human, rat, mouse

**Positive Controls:**

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

IP: HepG2 cells,

IHC: mouse embryo tissue,

IF: HepG2 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, 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

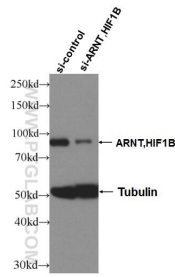
T: 4006900926

E: Proteintech-CN@ptglab.com

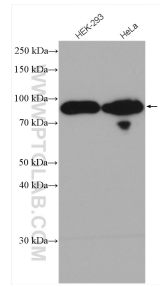
W: ptgcn.com

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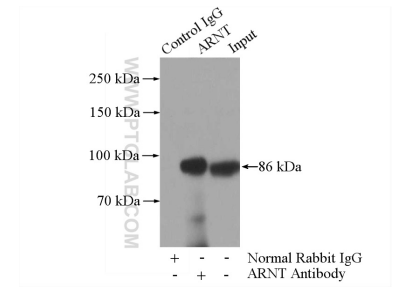
## Selected Validation Data



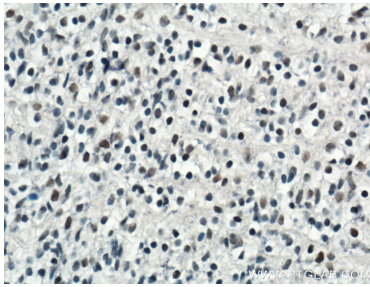
WB result of ARNT, HIF1B antibody (14105-1-AP; 1:3000); incubated at room temperature for 1.5 hours) with sh-Control and sh-ARNT, HIF1B transfected HeLa cells.



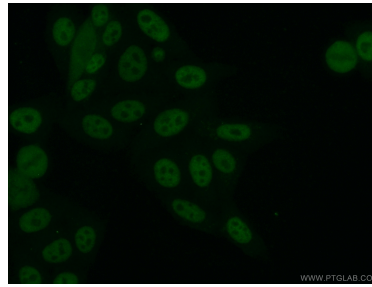
Various lysates were subjected to SDS PAGE followed by western blot with 14105-1-AP (ARNT, HIF1B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-ARNT, HIF1B (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, HIF1B Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 14105-1-AP (ARNT, HIF1B antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).