

For Research Use Only

ARNT, HIF1B Polyclonal ANTIBODY



Catalog Number: 14105-1-AP

Featured Product

6 Publications

Basic Information

Catalog Number:
14105-1-AP

Size:
45 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG5238

GenBank Accession Number:
BC060838

GeneID (NCBI):
405

Full Name:
aryl hydrocarbon receptor nuclear translocator

Calculated MW:
416aa, 46 kDa, 87 kDa

Observed MW:
86 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

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

Positive Controls:

WB : HepG2 cells; HeLa cells

IP : HepG2 cells;

IHC : mouse embryo tissue;

IF : HepG2 cells;

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
Yang Songwei S	24237301	J Interferon Cytokine Res	
Suho Seo	27803454	Biol Pharm Bull	WB
Kyuhwa Seo	27840318	Free Radic Biol Med	WB

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

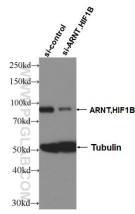
For technical support and original validation data for this product please contact:

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

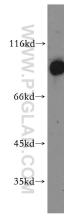
E: proteintech@ptglab.com
W: ptglab.com

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

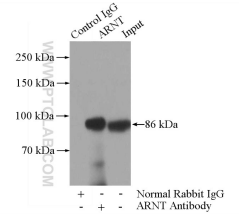
Selected Validation Data



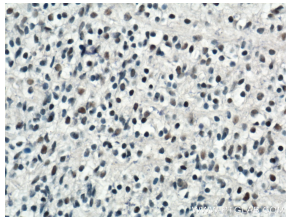
WB result of ARNT, HIF1B antibody (14105-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARNT, HIF1B transfected HeLa cells



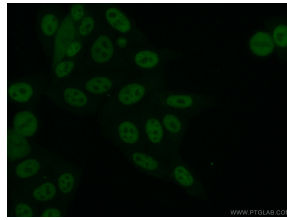
HepG2 cells were subjected to SDS PAGE followed by western blot with 14105-1-AP (ARNT, HIF1B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours



IP Result of anti-ARNT, HIF1B (IP:14105-1-AP, 4ug; Detection:14105-1-AP 1:1000) with HepG2 cells lysate 3600ug.



Immunohistochemistry 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 retrieved with Tris-EDTA buffer (pH9).



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)