

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:

150ul, Concentration: 500 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5238

GenBank Accession Number:

BC060838

GeneID (NCBI):

405

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, 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

*** 20ul sizes contain 0.1% BSA

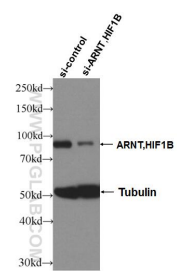
For technical support and original validation data for this product please contact:

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

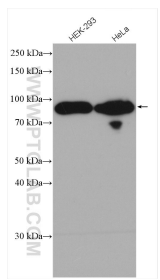
E: proteintech@ptglab.com
W: ptglab.com

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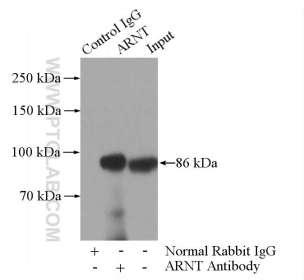
Selected Validation Data



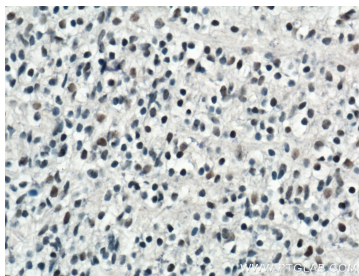
WB result of ARNT, HIF1B antibody (14105-1-AP; 1:3000); incubated at room temperature for 1.5 hours with sh-Control and sh-ARNT, HIF1B transfected HeLa cells.



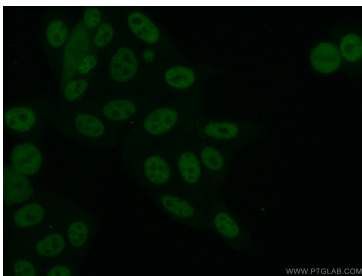
Various lysates were subjected to SDS PAGE followed by western blot with 14105-1-AP (ARNT, HIF1B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).