

For Research Use Only

ARNT, HIF1B Polyclonal antibody

Catalog Number: 14105-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number: 14105-1-AP	GenBank Accession Number: BC060838	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 405	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: aryl hydrocarbon receptor nuclear translocator	IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG	Calculated MW: 416 aa, 46 kDa, 87 kDa	
Immunogen Catalog Number: AG5238	Observed MW: 86 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : HepG2 cells, HeLa cells
Cited Applications: IF, IHC, WB	IP : HepG2 cells,
Species Specificity: human, mouse	IHC : mouse embryo tissue,
Cited Species: human, mouse, rat	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	

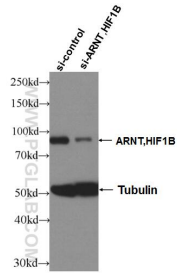
Storage

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

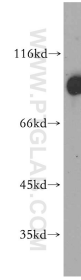
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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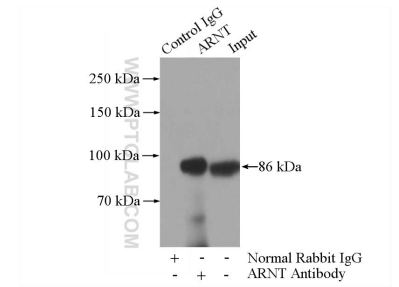
Selected Validation Data



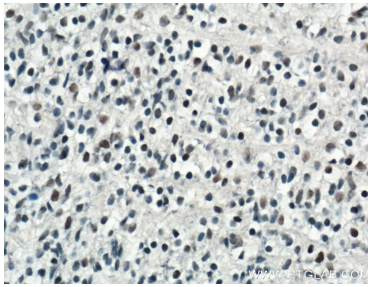
WB result of ARNT, HIF1B antibody (14105-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARNT, HIF1B transfected HeLa cells.



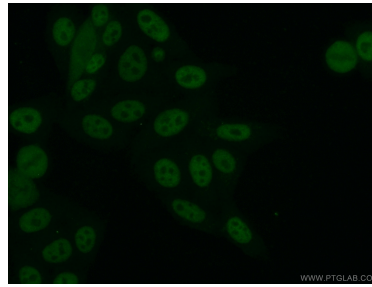
HepG2 cells were subjected to SDS PAGE followed by western blot with 14105-1-AP (ARNT, HIF1B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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



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).