

For Research Use Only

ARNT/HIF-1 beta Recombinant antibody

Catalog Number: 84650-4-RR



Basic Information

Catalog Number: 84650-4-RR	GenBank Accession Number: BC060838	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 405	CloneNo.: 242111G2
Source: Rabbit	UNIPROT ID: P27540	Recommended Dilutions: WB 1:1000-1:8000 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: aryl hydrocarbon receptor nuclear translocator	
Immunogen Catalog Number: AG5507	Calculated MW: 416 aa, 46 kDa, 87 kDa	
	Observed MW: 87 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : A549 cells, HSC-T6 cells, HeLa cells, HepG2 cells IF/ICC : HepG2 cells,
Species Specificity: human, rat	

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.

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

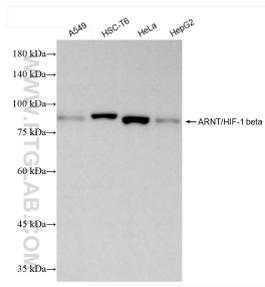
For technical support and original validation data for this product please contact:

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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.

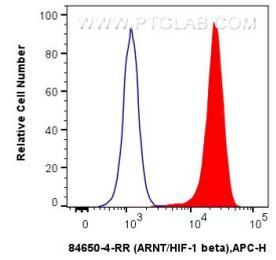
Selected Validation Data



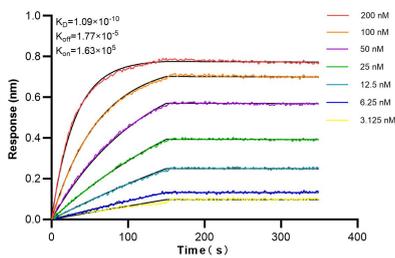
Various lysates were subjected to SDS PAGE followed by western blot with 84650-4-RR (ARNT, HIF1B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ARNT, HIF1B antibody (84650-4-RR, Clone: 242111G2) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 HeLa cells were intracellularly stained with 0.25 ug ARNT/HIF-1 beta Recombinant antibody (84650-4-RR, Clone: 242111G2) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 84650-4-RR against Human ARNT/HIF-1 beta were performed. The affinity constant is 0.109 nM.