

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: 1000 ug/ml	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

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

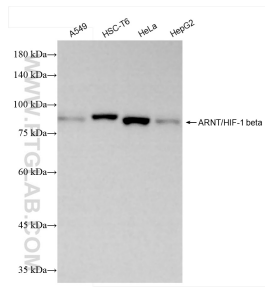
T: 4006900926

E: Proteintech-CN@ptglab.com

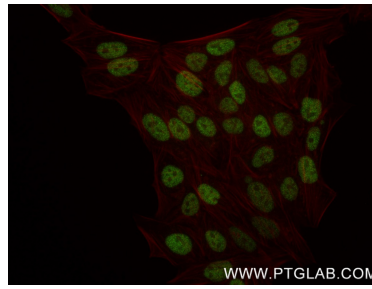
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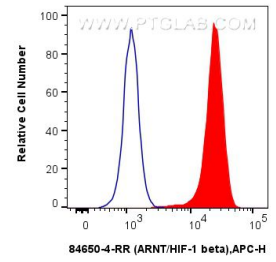
Selected Validation Data



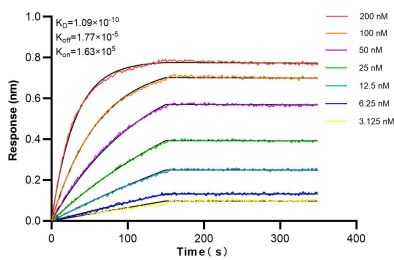
Various lysates were subjected to SDS PAGE followed by western blot with 84650-4-RR (ARNT, HIF1B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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 μ g ARNT/HIF-1 beta Recombinant antibody (84650-4-RR, Clone: 242111G2) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g 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.