

For Research Use Only

# ARNT/HIF-1 beta Recombinant antibody, PBS Only

Catalog Number: 84650-4-PBS



## Basic Information

<b>Catalog Number:</b> 84650-4-PBS	<b>GenBank Accession Number:</b> BC060838	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 405	<b>CloneNo.:</b> 242111G2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P27540	
<b>Isotype:</b> IgG	<b>Full Name:</b> aryl hydrocarbon receptor nuclear translocator	
<b>Immunogen Catalog Number:</b> AG5507	<b>Calculated MW:</b> 416 aa, 46 kDa, 87 kDa	
	<b>Observed MW:</b> 87 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), Indirect ELISA

**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 -80°C.

**Storage Buffer:**  
PBS Only

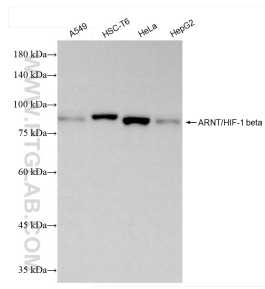
For technical support and original validation data for this product please contact:

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

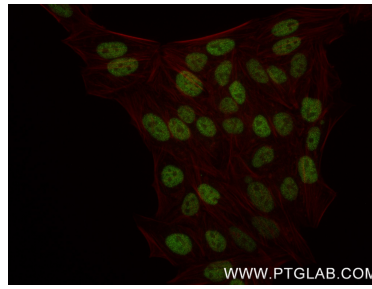
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

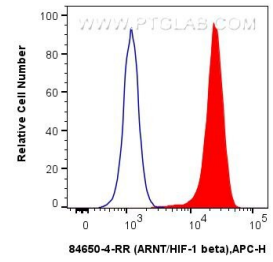
## Selected Validation Data



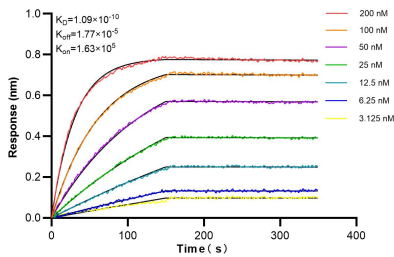
Various lysates were subjected to SDS PAGE followed by western blot with 84650-4-RR (ARNT, HIF1B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84650-4-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84650-4-PBS in a different storage buffer formulation.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ 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  $\mu$ 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. This data was developed using the same antibody clone with 84650-4-PBS in a



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