

For Research Use Only

# ARNT/HIF-1 beta Monoclonal antibody

Catalog Number:66732-1-Ig



## Basic Information

<b>Catalog Number:</b> 66732-1-Ig	<b>GenBank Accession Number:</b> BC060838	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 405	<b>CloneNo.:</b> 3B12C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P27540	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:650-1:2600
<b>Isotype:</b> IgG1	<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

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> Caco-2 cells, HeLa cells, HepG2 cells, HT-29 cells, HSC-T6 cells, NIH/3T3 cells
	<b>IF/ICC :</b> HT-1376 cells,

## 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

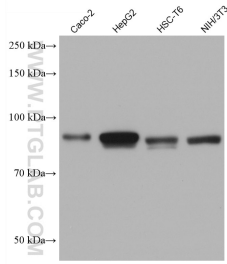
For technical support and original validation data for this product please contact:

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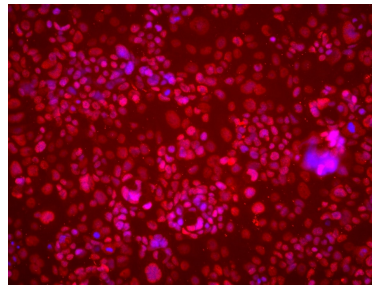
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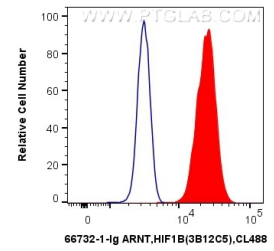
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66732-1-Ig (ARNT/HIF-1 beta antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HT-1376 cells using ARNT/HIF-1 beta antibody (66732-1-Ig, Clone: 3B12C5 ) at dilution of 1:1300 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.5 ug Anti-Human ARNT/HIF-1 beta (66732-1-Ig, Clone:3B12C5) and CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).