

ARNT/HIF-1 beta Monoclonal antibody

Catalog Number: 66732-1-Ig

Basic Information

Catalog Number:

66732-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG5507

GenBank Accession Number:

BC060838

GeneID (NCBI):

405

UNIPROT ID:

P27540

Full Name:

aryl hydrocarbon receptor nuclear translocator

Calculated MW:

416 aa, 46 kDa, 87 kDa

Observed MW:

87 kDa

Purification Method:

Protein G purification

CloneNo.:

3B12C5

Recommended Dilutions:

WB: 1:2000-1:10000

IF/ICC: 1:1000-1:4000

FC (Intra): 0.50 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : Caco-2 cells, HeLa cells, HepG2 cells, HT-29 cells, HSC-T6 cells, NIH/3T3 cells

IF/ICC : A549 cells,

FC (Intra) : HeLa 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:

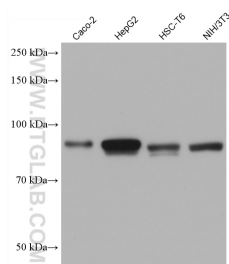
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

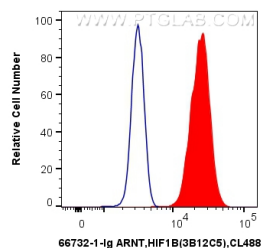
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

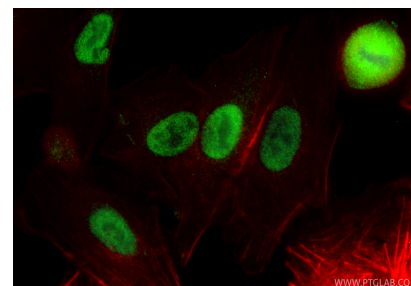
Selected Validation Data



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.



1X10⁶ HeLa cells were intracellularly stained with 0.5 ug Anti-Human ARNT/HIF-1 beta (66732-1-Ig, Clone:3B12C5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(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).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using ARNT/HIF-1 beta antibody (66732-1-Ig, Clone: 3B12C5) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).