

For Research Use Only

IARS2 Recombinant antibody

Catalog Number: 84764-3-RR



Basic Information

Catalog Number:

84764-3-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10696

GenBank Accession Number:

BC010218

GeneID (NCBI):

55699

UNIPROT ID:

Q9NSE4

Full Name:

isoleucyl-tRNA synthetase 2,

mitochondrial

Calculated MW:

1012 aa, 114 kDa

Observed MW:

114 kDa

Purification Method:

Protein A purification

CloneNo.:

242219C5

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:250-1:1000

Applications

Tested Applications:

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

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, mouse lung tissue, HEK-293 cells,

MCF-7 cells, Jurkat cells, rat heart tissue

IF/ICC : HepG2 cells,

Background Information

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of isoleucine-tRNA synthetase exist, a cytoplasmic form and a mitochondrial form. This gene encodes the mitochondrial isoleucine-tRNA synthetase which belongs to the class-I aminoacyl-tRNA synthetase family.

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:

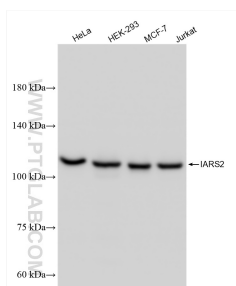
T: 4006900926

E: Proteintech-CN@ptglab.com

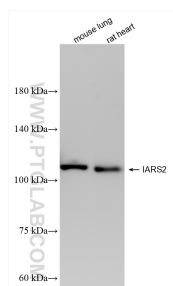
W: ptgcn.com

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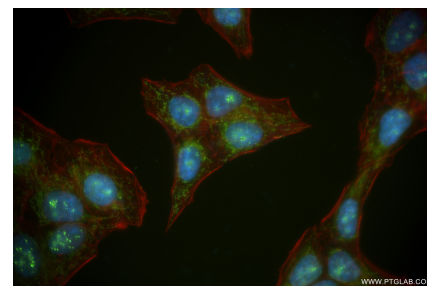
Selected Validation Data



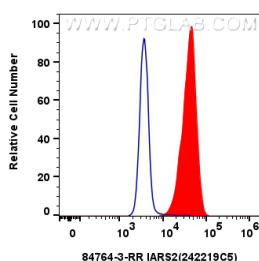
Various lysates were subjected to SDS PAGE followed by western blot with 84764-3-RR (IARS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



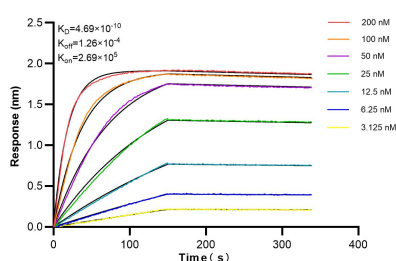
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Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using IARS2 antibody (84764-3-RR, Clone: 242219C5) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug IARS2 Recombinant antibody (84764-3-RR, Clone:242219C5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84764-3-RR against Human IARS2 were performed. The affinity constant is 0.469 nM.