

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, 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:

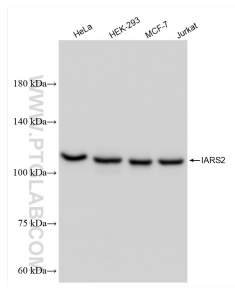
T: 4006900926

E: Proteintech-CN@ptglab.com

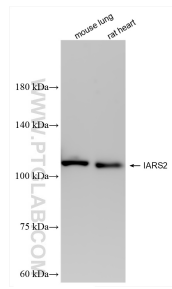
W: ptgcn.com

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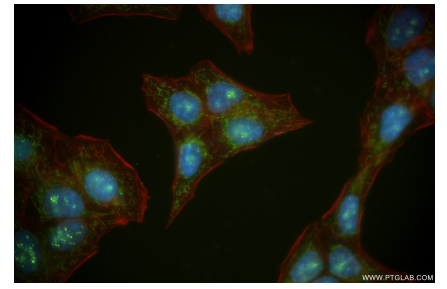
## Selected Validation Data



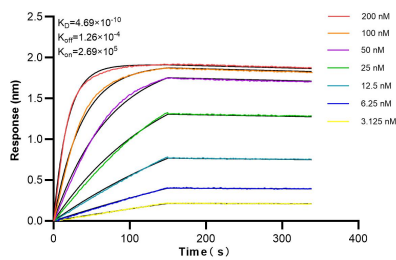
Various lysates were subjected to SDS PAGE followed by western blot with 84764-3-RR (IARS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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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).



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