

For Research Use Only

# IARS2 Recombinant antibody

Catalog Number: 84764-5-RR



## Basic Information

<b>Catalog Number:</b> 84764-5-RR	<b>GenBank Accession Number:</b> BC010218	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55699	<b>CloneNo.:</b> 242219G4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NSE4	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> isoleucyl-tRNA synthetase 2, mitochondrial	
<b>Immunogen Catalog Number:</b> AG10696	<b>Calculated MW:</b> 1012 aa, 114 kDa	
	<b>Observed MW:</b> 114 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells <b>IF/ICC :</b> HeLa cells, 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

\*\*\* 20ul sizes contain 0.1% BSA

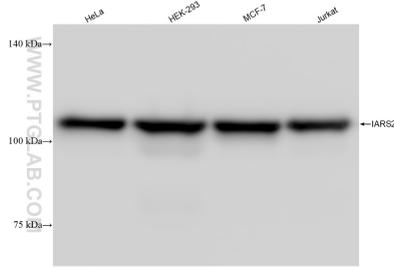
For technical support and original validation data for this product please contact:

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

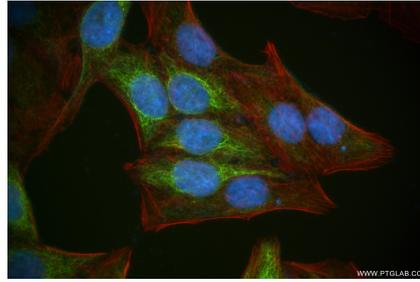
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

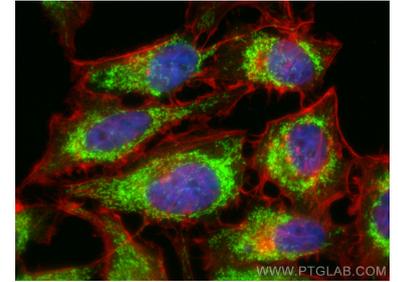
## Selected Validation Data



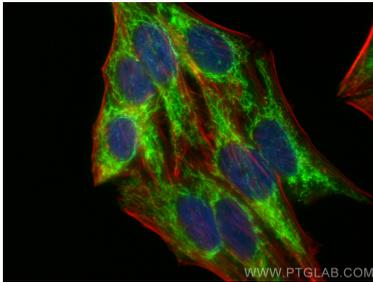
Various lysates were subjected to SDS PAGE followed by western blot with 84764-5-RR (IARS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



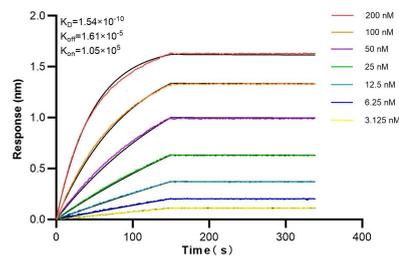
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using IARS2 antibody (84764-5-RR, Clone: 242219G4) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using IARS2 antibody (84764-5-RR, Clone: 242219G4) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using IARS2 antibody (84764-5-RR, Clone: 242219G4) 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 84764-5-RR against Human IARS2 were performed. The affinity constant is 0.154 nM.