For Research Use Only

## IARS2 Recombinant antibody, PBS Only (Capture)

Antibodies | ELISA kits | Proteins Uni-rAb www.ptglab.com

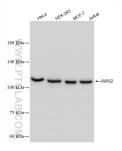
Catalog Number:84764-3-PBS

Basic Information	Catalog Number: 84764-3-PBS	GenBank Accession Number: BC010218	Purification Method: Protein A purification				
	Size: 100ug, Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG10696	GeneID (NCBI): 55699 UNIPROT ID: Q9NSE4 Full Name: isoleucyl-tRNA synthetase 2, mitochondrial	CloneNo.: 242219C5				
				Calculated MW: 1012 aa, 114 kDa			
				Observed MW: 114 kDa			
				Applications	Tested Applications:		
					WB, IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test		
		Species Specificity: human, mouse, rat					
		Product Information	84764-3-PBS targets IARS2 as part of a matched antibody pair:				
MP01543-1: 84764-3-PBS capture and 84764-2-PBS detection (validated in Cytometric bead array)							
MP01543-2: 84764-3-PBS capture and 84764-1-PBS detection (validated in Cytometric bead array)							
MP01543-3: 84764-3-PBS capture and 84764-4-PBS detection (validated in Sandwich ELISA)							
Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.							
	ss cytometry, and multiplex imaging		applications including: ELISAs, multiplex g applications.Antibody use should be				
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 -80°C. Storage Buffer: PBS Only						

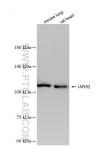
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

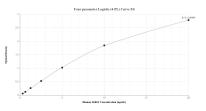
## Selected Validation Data



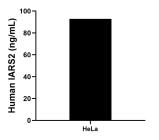
Various lysates were subjected to SDS PAGE followed by western blot with 84764-3-RR (IARS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84764-3-PBS in a different storage buffer formulation.



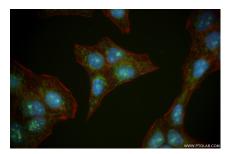
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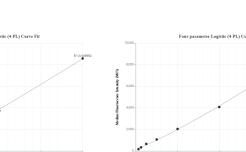
Sandwich ELISA standard curve of MP01543-3, Human IARS2 Recombinant Matched Antibody Pair - PBS only. 8&764-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag10696. 84764-4-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL



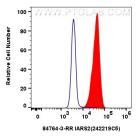
The mean IARS2 concentration was determined to be 92.84 ng/mL in HeLa cell extract based on a 1.00 mg/mL extract load.



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). This data was developed using the same antibody clone with 84764-3-PBS in a different storage buffer formulation.

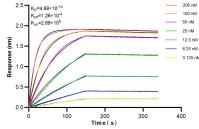


Cytometric bead array standard curve of MP01543-1, IARS2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84764-3-PBS. Detection antibody: 84764-2-PBS. Standard: Ag10696. Range: 0.313-20 ng/mL.



1x10<sup>6</sup> 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(I+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). This data was developed using the same antibody clone with 84764-3-PBS in a





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

Cytometric bead array standard curve of MP01543-2, IARS2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84764-3-PBS. Detection antibody: 84764-1-PBS. Standard: Ag10696. Range: 0.313-20 ng/mL