

For Research Use Only

QARS Recombinant monoclonal antibody

Catalog Number: 86333-3-RR



Basic Information

Catalog Number: 86333-3-RR	GenBank Accession Number: BC016634	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5859	CloneNo.: 251052A2
Source: Rabbit	UNIPROT ID: P47897	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: glutaminyl-tRNA synthetase	
Immunogen Catalog Number: AG3375	Calculated MW: 775 aa, 88 kDa	
	Observed MW: 88 kDa	

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HeLa cells, HepG2 cells, PC-3 cells, Ramos cells, Raji cells, NIH/3T3 cells, HSC-T6 cells

IF/ICC : NIH/3T3 cells,

Background Information

GlnRS (glutaminyl-tRNA synthetase) is a class I aminoacyl-tRNA synthetase. Aminoacyl-tRNA synthetases are enzymes that charge tRNAs with their cognate amino acids. The specificity of this reaction determines the fidelity of mRNA translation. At least 1 synthetase exists in the cytoplasm for each amino acid. GlnRS is present in eukaryotes but is absent from many prokaryotes, mitochondria, and chloroplasts, in which Gln-tRNA(Gln) is formed by transamidation of the misacylated Glu-tRNA(Gln) (PMID:8078941).

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

*** 20ul sizes contain 0.1% BSA

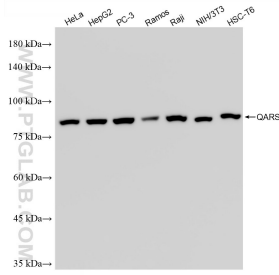
For technical support and original validation data for this product please contact:

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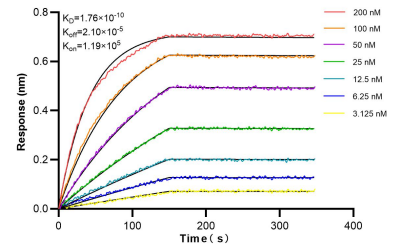
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86333-3-RR (QARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using QARS antibody (86333-3-RR, Clone: 251052A2) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 86333-3-RR against Human QARS were performed. The affinity constant is 0.176 nM.