

For Research Use Only

# QARS Recombinant monoclonal antibody, PBS Only

Catalog Number: 86333-3-PBS



## Basic Information

Catalog Number:

86333-3-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3375

GenBank Accession Number:

BC016634

GeneID (NCBI):

5859

UNIPROT ID:

P47897

Full Name:

glutaminyl-tRNA synthetase

Calculated MW:

775 aa, 88 kDa

Observed MW:

88 kDa

Purification Method:

Protein A purification

CloneNo.:

251052A2

## Applications

Tested Applications:

WB, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat

## 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 -80°C.

Storage Buffer:

PBS only, pH7.3

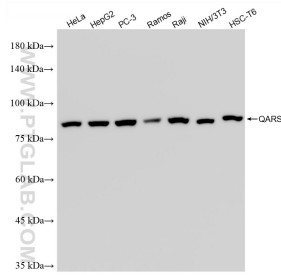
For technical support and original validation data for this product please contact:

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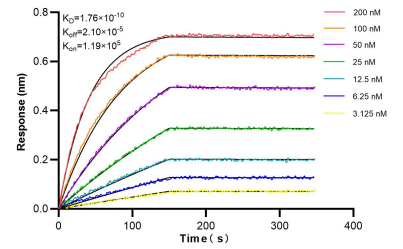
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## Selected Validation Data



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. This data was developed using the same antibody clone with 86333-3-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 86333-3-PBS in a different storage buffer formulation.



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