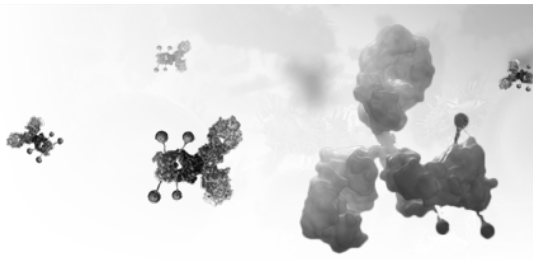

Anti-QARS (aa 317-569) polyclonal antibody (DPABH-22477)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	QARS is a class I aminoacyl-tRNA synthetase. Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. The specificity of this reaction determines the fidelity of mRNA translation. At least 1 synthetase exists in the cytoplasm for each amino acid. Although present in eukaryotes, glutaminyl-tRNA synthetase (QARS) is absent from many prokaryotes, mitochondria, and chloroplasts, in which Gln-tRNA(Gln) is formed by transamidation of the misacylated Glu-tRNA(Gln).
Immunogen	Recombinant fragment, corresponding to a region within amino acids 317 and 569 of Human QARS (P47897).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P
Format	Liquid
Size	50 µl
Buffer	pH: 7.00; Constituents: 0.75% Glycine, 1.21% Tris, 20% Glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	QARS glutaminyl-tRNA synthetase [Homo sapiens]
Official Symbol	QARS
Synonyms	QARS; glutaminyl-tRNA synthetase; glutamine--tRNA ligase; glutamine tRNA ligase; glutamine-tRNA synthetase; GLNRS; PRO2195;
Entrez Gene ID	5859
Protein Refseq	NP_005042
UniProt ID	B7Z840
Chromosome Location	3p21.31
Pathway	Aminoacyl-tRNA biosynthesis; Aminoacyl-tRNA biosynthesis, eukaryotes; Cytosolic tRNA aminoacylation; Gene Expression; Metabolic pathways.
Function	ATP binding; glutamine-tRNA ligase activity; ligase activity; nucleotide binding;

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