



# Mouse anti-Human QARS monoclonal antibody, clone 6G6 (CABT-B11117)

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

## PRODUCT INFORMATION

<b>Immunogen</b>	QARS (NP_005042, 677 a.a. ~ 775 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	6G6
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC, IP, sELISA, ELISA
<b>Sequence Similarities</b>	FIHWVSQPLMCEVRLYERLFQHKNPEDPTEVPGGFLSDLNLASLHVVDAAALVDCSVALAK PFDKFQFERLGYSVDPDSHQGKLVFNRTVTCLKEDPGKV
<b>Format</b>	Liquid
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

<b>Introduction</b>	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. In metazoans, 9 aminoacyl-tRNA synthetases specific for glutamine (gln), glutamic acid (glu), and 7 other amino acids are associated within a multienzyme complex. 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). Glutaminyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

---

<b>Keywords</b>	QARS; glutaminyl-tRNA synthetase; GLNRS; MSCCA; PRO2195; glutamine--tRNA ligase; glutamine-tRNA synthetase;
-----------------	---

---

## GENE INFORMATION

---

<b>Entrez Gene ID</b>	<a href="#">5859</a>
-----------------------	----------------------

---

<b>UniProt ID</b>	<a href="#">P47897</a>
-------------------	------------------------

---

<b>Pathway</b>	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
----------------	--

---

<b>Function</b>	ATP binding; glutamine-tRNA ligase activity; ligase activity; nucleotide binding;
-----------------	---

---