



Rabbit Anti-Human KARS Polyclonal Antibody (CABT-L2252)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Lysyl tRNA Synthetase (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against KARS. It has been selected for its ability to recognize KARS in immunohistochemical staining and western blotting.
Target	KARS
Immunogen	Recombinant fragment corresponding to human KARS (Arg323~Arg553)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Keywords	KARS2;LysRS;Lysine tRNA Ligase

GENE INFORMATION

Gene Name	KARS lysyl-tRNA synthetase [Homo sapiens (human)]
Official Symbol	KARS
Synonyms	KARS; lysyl-tRNA synthetase; KRS; KARS1; KARS2; CMTRIB; DFNB89; lysine--tRNA ligase; lysRS; lysine tRNA ligase;
Entrez Gene ID	3735
Protein Refseq	NP_001123561
UniProt ID	Q15046
Chromosome Location	16q23.1
Pathway	Aminoacyl-tRNA biosynthesis; Aminoacyl-tRNA biosynthesis, eukaryotes; Cytosolic tRNA aminoacylation; Gene Expression; Mitochondrial tRNA aminoacylation; tRNA Aminoacylation;
Function	ATP binding; amino acid binding; lysine-tRNA ligase activity; metal ion binding; protein binding; tRNA binding;