

Anti-LysRS Rabbit Monoclonal Antibody

Catalog # ABO15462

Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	Q15046
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-LysRS Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	3735
Other Names	Lysine--tRNA ligase, 2.7.7.-, 6.1.1.6, Lysyl-tRNA synthetase, LysRS, KARS1 (HGNC:6215), KARS, KIAA0070
Calculated MW	68048
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 20K38
Immunogen	A synthesized peptide derived from human LysRS
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	KARS1 (HGNC:6215)
Synonyms	KARS, KIAA0070

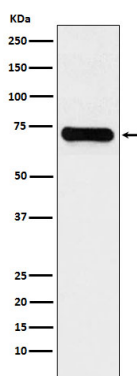
Function

Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA (PubMed:[18029264](#), PubMed:[18272479](#), PubMed:[9278442](#)). When secreted, acts as a signaling molecule that induces immune response through the activation of monocyte/macrophages (PubMed:[15851690](#)). Catalyzes the synthesis of the signaling molecule diadenosine tetraphosphate (Ap4A), and thereby mediates disruption of the complex between HINT1 and MITF and the concomitant activation of MITF transcriptional activity (PubMed:[14975237](#), PubMed:[19524539](#), PubMed:[23159739](#), PubMed:[5338216](#)).

Cellular Location

[Isoform Cytoplasmic]: Cytoplasm, cytosol. Cytoplasm. Nucleus. Cell membrane; Peripheral membrane protein. Secreted Note=Secretion is induced by TNF (PubMed:15851690). Cytosolic in quiescent mast cells. Translocates into the nucleus in response to mast cell activation by immunoglobulin E (PubMed:23159739)

Images



Western blot analysis of LysRS expression in Jurkat cell lysate.

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