

KARS Rabbit mAb

Catalog # AP78094

Product Information

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| Application | WB, IHC-P, IF, ICC, IP |
| Primary Accession | Q15046 |
| Reactivity | Rat, Human, Mouse |
| Host | Rabbit |
| Clonality | Monoclonal Antibody |
| Isotype | IgG |
| Conjugate | Unconjugated |
| Immunogen | A synthesized peptide derived from human LysRS |
| Purification | Affinity Chromatography |
| Calculated MW | 68048 |

Additional Information

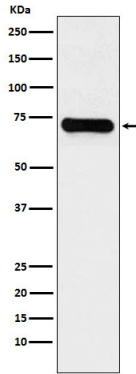
| | |
|--------------------|--|
| Gene ID | 3735 |
| Other Names | KARS1 |
| Dilution | WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A IP~~N/A |
| Format | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

Protein Information

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|--------------------------|---|
| 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



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