

# KARS Rabbit mAb

Catalog # AP78094

## Product Information

Application	WB, IHC-P, IF, ICC, IP
Primary Accession	<a href="#">Q15046</a>
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.

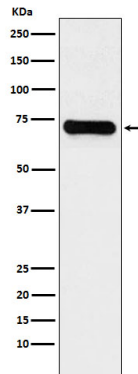
## Protein Information

Name	KARS1 ( <a href="#">HGNC:6215</a> )
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: <a href="#">18029264</a> , PubMed: <a href="#">18272479</a> , PubMed: <a href="#">9278442</a> ). When secreted, acts as a signaling molecule that induces immune response through the activation of monocyte/macrophages (PubMed: <a href="#">15851690</a> ). 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: <a href="#">14975237</a> , PubMed: <a href="#">19524539</a> , PubMed: <a href="#">23159739</a> , PubMed: <a href="#">5338216</a> ).
Cellular Location	[Isoform Cytoplasmic]: Cytoplasm, cytosol. Cytoplasm. Nucleus. Cell

membrane; Peripheral membrane protein. Secreted Note=Secretion is induced by TNF-alpha (PubMed:15851690). Cytosolic in quiescent mast cells. Translocates into the nucleus in response to mast cell activation by immunoglobulin E (PubMed:23159739)

## Images

---



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.