

# GARS Rabbit mAb

Catalog # AP77501

## Product Information

---

<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">P41250</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human GARS
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	83166

## Additional Information

---

<b>Gene ID</b>	2617
<b>Other Names</b>	GARS1
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

---

<b>Name</b>	GARS1 ( <a href="#">HGNC:4162</a> )
<b>Synonyms</b>	GARS
<b>Function</b>	Catalyzes the ATP-dependent ligation of glycine to the 3'-end of its cognate tRNA, via the formation of an aminoacyl-adenylate intermediate (Gly-AMP) (PubMed: <a href="#">17544401</a> , PubMed: <a href="#">24898252</a> , PubMed: <a href="#">28675565</a> ). Also produces diadenosine tetraphosphate (Ap4A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs. Thereby, may play a special role in Ap4A homeostasis (PubMed: <a href="#">19710017</a> ).
<b>Cellular Location</b>	Cytoplasm. Cell projection, axon. Secreted {ECO:0000250 UniProtKB:Q9CZD3}. Secreted, extracellular exosome {ECO:0000250 UniProtKB:Q9CZD3}. Note=In transfected COS7 cells, not detected in mitochondria, nor in Golgi apparatus (PubMed:17035524) Secreted by motor neuron, possibly through the exosome pathway (By

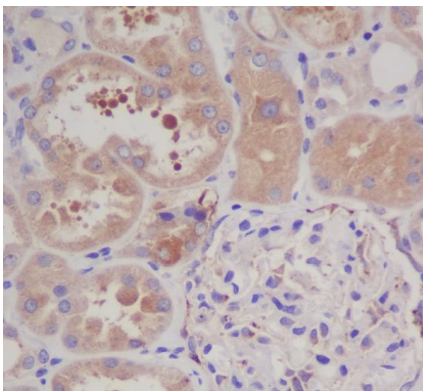
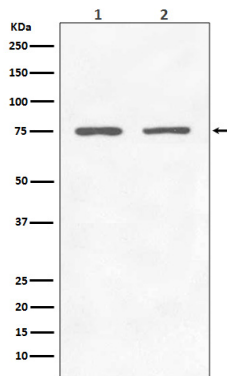
similarity). {ECO:0000250|UniProtKB:Q9CZD3,  
ECO:0000269|PubMed:17035524} [Isoform 2]: Cytoplasm. Cell projection,  
axon

## Tissue Location

Widely expressed, including in brain and spinal cord. [Isoform 1]: Expressed in brain, spinal cord, muscle, heart, spleen and liver.

## Images

---



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