

**GARS Rabbit mAb**  
Catalog # AP77501**Specification**

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**GARS Rabbit mAb - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P41250</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>83166</b>

**GARS Rabbit mAb - Additional Information****Gene ID** 2617**Other Names**

GARS1

**Dilution**

WB~~1/500-1/1000

IHC~~1/50-1/100

**Format**

Liquid

**GARS Rabbit mAb - Protein Information****Name** GARS1 ([HGNC:4162](#))**Synonyms** GARS**Function**

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="http://www.uniprot.org/citations/17544401" target="\_blank">17544401</a>, PubMed:<a href="http://www.uniprot.org/citations/24898252" target="\_blank">24898252</a>, PubMed:<a href="http://www.uniprot.org/citations/28675565" target="\_blank">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="http://www.uniprot.org/citations/19710017" target="\_blank">19710017</a>).

**Cellular Location**

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.

#### GARS Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### GARS Rabbit mAb - Images



