



SYG mouse mAb

Catalog No	YP-mAb-17247
Isotype	IgG
Reactivity	Human, Mouse,Rat
Applications	WB
Gene Name	GARS
Protein Name	Glycine--tRNA ligase (EC 6.1.1.14) (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)
Immunogen	Synthesized peptide derived from human N-terminal SYG
Specificity	This antibody detects endogenous levels of SYG at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Mouse,Monoclonal
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Glycine--tRNA ligase (EC 6.1.1.14) (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)
Observed Band	
Cell Pathway	Cytoplasm . Cell projection, axon . Secreted . Secreted, extracellular exosome . 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). . ; [Isoform 1]: Mitochondrion . Cytoplasm . ; [Isoform 2]: Cytoplasm . Cell projection, axon .
Tissue Specificity	Widely expressed, including in brain and spinal cord. . ; [Isoform 2]: Expressed in brain, spinal cord, muscle, heart and spleen. . ; [Isoform 1]: Expressed in brain, spinal cord, muscle, heart, spleen and liver.
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) . 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 .
Background	

**matters needing attention**

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images