



# SYG rabbit pAb

<b>Catalog No</b>	YP-Ab-17247
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human, Mouse,Rat
<b>Applications</b>	IHC,WB
<b>Gene Name</b>	GARS
<b>Protein Name</b>	Glycine--tRNA ligase (EC 6.1.1.14) (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)
<b>Immunogen</b>	Synthesized peptide derived from human N-terminal SYG
<b>Specificity</b>	This antibody detects endogenous levels of SYG at Human, Mouse,Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Rabbit,polyclonal
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:500-2000 IHC 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Glycine--tRNA ligase (EC 6.1.1.14) (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)
<b>Observed Band</b>	
<b>Cell Pathway</b>	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 .
<b>Tissue Specificity</b>	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.
<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) . 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 .
<b>Background</b>	

**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**