

SYG rabbit pAb

Catalog No :	YT8090
Reactivity :	Human;Mouse;Rat
Applications :	IHC;WB
Target :	GARS
Gene Name :	GARS
Protein Name :	Glycine--tRNA ligase (EC 6.1.1.14) (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)
Human Gene Id :	2617
Human Swiss Prot No :	P41250
Mouse Gene Id :	353172
Mouse Swiss Prot No :	Q9CZD3
Rat Swiss Prot No :	Q5I0G4
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 :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 81kD

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 .

Subcellular Location : 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 .

Expression : 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.

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