

SYG rabbit pAb

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| 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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