



SYG rabbit pAb

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|---------------------------|---|
| Catalog No | BYab-17247 |
| Isotype | IgG |
| Reactivity | Human, Mouse,Rat |
| Applications | IHC,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 | Rabbit,polyclonal |
| Purification | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. |
| Dilution | WB 1:500-2000 IHC 1:50-200 |
| 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 . |

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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