

SYG Rabbit pAb

CatalogNo: YT8090

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, WB

MW

- 81kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-200

Storage

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

Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human N-terminal SYG

Specificity This antibody detects endogenous levels of SYG at Human, Mouse, Rat

Target Information

Gene name GARS

Protein Name	Glycine--tRNA ligase (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)		
	Organism	Gene ID	UniProt ID
	Human	2617 ;	P41250 ;
	Mouse	353172 ;	Q9CZD3 ;
	Rat		Q5I0G4 ;
Cellular Localization	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 .		

Validation Data

Contact information

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