

## 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, 0.5% BSA 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

<b>Protein Name</b>	Glycine--tRNA ligase (Diadenosine tetraphosphate synthetase) (AP-4-A synthetase) (Glycyl-tRNA synthetase) (GlyRS)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">2617;</a>	<a href="#">P41250;</a>
	Mouse	<a href="#">353172;</a>	<a href="#">Q9CZD3;</a>
	Rat		<a href="#">Q5I0G4;</a>
<b>Cellular Localization</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 .		

## | Validation Data

## | Contact information

Orders: [order.cn@immunoway.com](mailto:order.cn@immunoway.com)  
 Support: [support.cn@immunoway.com](mailto:support.cn@immunoway.com)  
 Telephone: 400-8787-807(China)  
 Website: <http://www.immunoway.com.cn>  
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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