



Rabbit Anti-SHMT2 antibody

SL17469R

Product Name:	SHMT2
Chinese Name:	丝氨酸甲基化酶mSHMT抗体
Alias:	GLY A+; GLYA; glycine auxotroph A, human complement for hamster; Glycine hydroxymethyltransferase; GLYM_HUMAN; mitochondrial; Serine hydroxymethyltransferase 2 (mitochondrial); Serine hydroxymethyltransferase; Serine hydroxymethyltransferase mitochondrial; Serine methylase; SHMT 2; SHMT; SHMT2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SHMT2:51-150/504
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes the mitochondrial form of a pyridoxal phosphate-dependent enzyme that catalyzes the reversible reaction of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. The encoded product is primarily responsible for glycine synthesis. The activity of the encoded protein has been suggested to be the primary

source of intracellular glycine. The gene which encodes the cytosolic form of this enzyme is located on chromosome 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Function:

Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Required to prevent uracil accumulation in mtDNA. Interconversion of serine and glycine. Associates with mitochondrial DNA.

Subcellular Location:

Mitochondrion. Mitochondrion matrix > mitochondrion nucleoid. Mitochondrion inner membrane.

Similarity:

Belongs to the SHMT family.

SWISS:

P34897

Gene ID:

6472

Database links:

[Entrez Gene: 6472](#) Human

[Entrez Gene: 108037](#) Mouse

[Entrez Gene: 299857](#) Rat

[Omim: 138450](#) Human

[SwissProt: P34897](#) Human

[Unigene: 741179](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.