



Rabbit Anti-Human SHMT2 Polyclonal Antibody (CABT-L2159)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Serine Hydroxymethyltransferase 2, Mitochondrial (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against SHMT2. It has been selected for its ability to recognize SHMT2 in immunohistochemical staining and western blotting.
Target	SHMT2
Immunogen	Recombinant fragment corresponding to human SHMT2 (Asn30~His504)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Pig
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags
Warnings	For research use only.

BACKGROUND

Introduction	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]
Keywords	Serine methylase;Glycine hydroxymethyltransferase

GENE INFORMATION

Gene Name	SHMT2 serine hydroxymethyltransferase 2 (mitochondrial) [Homo sapiens (human)]
Official Symbol	SHMT2
Synonyms	SHMT2; serine hydroxymethyltransferase 2 (mitochondrial); GLYA; SHMT; HEL-S-51e; serine hydroxymethyltransferase, mitochondrial; GLY A+; serine aldolase; serine methylase; threonine aldolase; serine hydroxymethylase; glycine hydroxymethyltransferase; epididymis secretory sperm binding protein Li 51e; glycine auxotroph A, human complement for hamster;
Entrez Gene ID	6472
Protein Refseq	NP_001159828
UniProt ID	P34897
Chromosome Location	12q12-q14
Pathway	Biosynthesis of amino acids; C1-unit interconversion, eukaryotes; Carbon metabolism; Cyanoamino acid metabolism; Glycine Metabolism; Glycine, serine and threonine metabolism; Glyoxylate and dicarboxylate metabolism; Metabolic pathways;
Function	L-allo-threonine aldolase activity; amino acid binding; chromatin binding; glycine hydroxymethyltransferase activity; identical protein binding; pyridoxal phosphate binding;