



GLYM rabbit pAb

Catalog No	YP-Ab-12157
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	SHMT2
Immunogen	Synthesized peptide derived from human GLYM AA range: 122-172
Specificity	This antibody detects endogenous levels of GLYM at Human
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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;GLYM
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Mitochondrion . Mitochondrion matrix, mitochondrion nucleoid . Mitochondrion inner membrane . Cytoplasm . Nucleus . Mainly localizes in the mitochondrion. Also found in the cytoplasm and nucleus as part of the BRISC complex (PubMed:24075985). .
Tissue Specificity	
Function	catalytic activity:5,10-methylenetetrahydrofolate + glycine + H(2)O = tetrahydrofolate + L-serine.;cofactor:Pyridoxal phosphate.; function:Interconversion of serine and glycine.;miscellaneous:In eukaryotes there are two forms of the enzymes: a cytosolic one and a mitochondrial one.; pathway:One-carbon metabolism; tetrahydrofolate pathway.;similarity:Belongs to the SHMT family.;subunit:Homotetramer.;



Background

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],

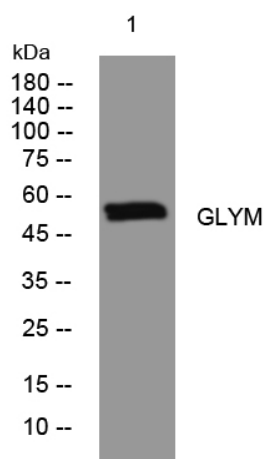
matters needing attention

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



Western blot analysis of lysates from A549 cells, primary antibody was diluted at 1:1000, 4° over night