

Rabbit SHMT1 Polyclonal Antibody | anti-SHMT1 antibody

SHMT1 Antibody (N-term)

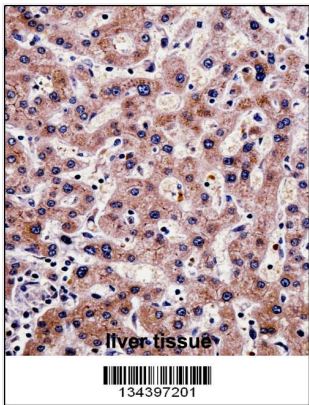
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284787	Rabbit	Human (Predicted Reactivity: Bovine)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

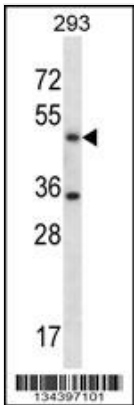
SHMT1; Polyclonal Antibody; SHMT1 Antibody (N-term); Serine hydroxymethyltransferase; cytosolic; SHMT; Glycine hydroxymethyltransferase; Serine methylase; anti-SHMT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SHMT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-47 amino acids from the N-terminal region of human SHMT1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	19-47
Sequence Length	345
Applicable Applications for anti-SHMT1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
SHMT1 Antibody (N-term) (AAA284787) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SHMT1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
SHMT1 Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the SHMT1 antibody detected the SHMT1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SHMT1 antibody	This gene encodes the cellular form of serine hydroxymethyltransferase, a pyridoxal phosphate-containing enzyme that catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. This reaction provides one carbon units for synthesis of methionine, thymidylate, and purines in the cytoplasm. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative splicing of this gene results in 2 transcript variants encoding 2 different isoforms. Additional transcript variants have been described, but their biological validity has not been determined.
Product Categories/Family for anti-SHMT1 antibody	Metabolism; Signal Transduction
References	Porter, K.E., et al. Environ. Res. 110(6):580-587(2010) Summers, C.M., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(8):679-688(2010) Vijayakrishnan, J., et al. Haematologica 95(8):1405-1414(2010) Levine, A.J., et al. Cancer Epidemiol. Biomarkers Prev. 19(7):1812-1821(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	22547186
NCBI GeneID	6470
NCBI Accession #	NP_004160.3; NP_683718.1
NCBI GenBank Nucleotide #	NM_004169.4
UniProt Accession #	P34896; Q96HY0; Q9UMD1; Q9UMD2; B4DPM9; D3DXD0
Molecular Weight	53083
NCBI Official Full Name	serine hydroxymethyltransferase, cytosolic isoform 1
NCBI Official Synonym Full Names	serine hydroxymethyltransferase 1 (soluble)
NCBI Official Symbol	SHMT1

NCBI Official Synonym Symbols	SHMT; CSHMT
NCBI Protein Information	serine hydroxymethyltransferase, cytosolic
UniProt Protein Name	Serine hydroxymethyltransferase, cytosolic
UniProt Gene Name	SHMT1
UniProt Synonym Gene Names	SHMT
UniProt Entry Name	GLYC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/shmt1-antibody-immunohistochemistry-western-blot-elisa/284787>