SHMT1 (N-term) Polyclonal Antibody

Order Information

Catalog#	BGT-ANT-69440
Size/Concentration	100μl

Description

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.

Specification

Aliases ： Serine hydroxymethyltransferase, cytosolic, SHMT, Glycine hydroxymethyltransferase, Serine methylase, SHMT1

Entrez GeneID ： 6470

Swissprot ： P34896

WB Predicted band size ： 53.1kDa

Host/Isotype ： Rabbit IgG

Antibody Type ： Primary antibody

Storage ： Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Species Reactivity ： Human

Immunogen ： 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.

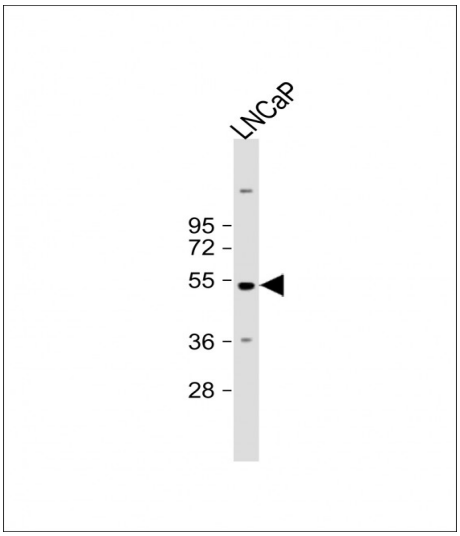
Formulation ： Purified antibody in PBS with 0.05% sodium azide.

Application

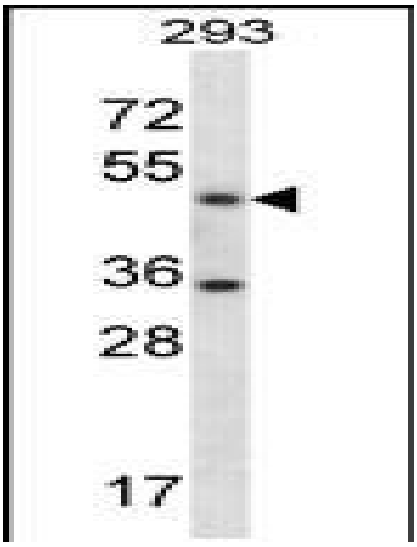
WB	1/1000
IHC	1/100-1/500

For Research Only

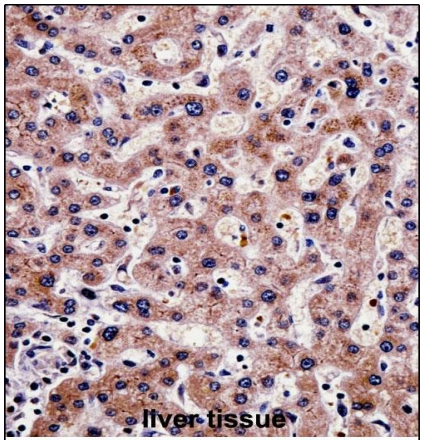
Application Key:WB - Western Blot | **IHC** - Immunohistochemistry | **ICC** - Immunocytochemistry | **FCM** - Flow Cytometry | **ELISA** - Enzyme-linked Immunosorbent Assay | **IP** - Immunoprecipitation



Anti-SHMT1 Antibody (N-term) at 1:1000 dilution + LNCaP whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG , (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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



SHMT1 Antibody (N-term) 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.

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