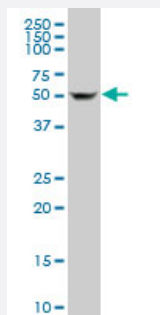


# SHMT1 polyclonal antibody (A01)

Catalog # H00006470-A01

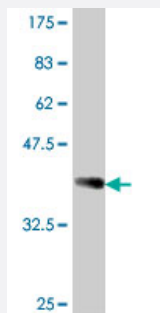
Size 50 uL

## Applications



### Western Blot (Cell lysate)

SHMT1 polyclonal antibody (A01), Lot # 051213JC01 Western Blot analysis of SHMT1 expression in HepG2 ( Cat # L019V1 ).



Western Blot detection against Immunogen (38.1 KDa) .

## Specification

|                         |                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|
| Product Description     | Mouse polyclonal antibody raised against a partial recombinant SHMT1.                                             |
| Immunogen               | SHMT1 (NP_004160, 374 a.a. ~ 482 a.a) partial recombinant protein with GST tag.                                   |
| Sequence                | EKVLEACSIACNKNTCPGDRSALRPSGLRLGTPALTSRGLLEKDFQKVAHFHHRGIELTLQIQSDTG<br>VRATLKEFKERLAGDKYQAAVQALREEVESFASLFPLPGLPD |
| Host                    | Mouse                                                                                                             |
| Reactivity              | Human                                                                                                             |
| Quality Control Testing | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (38.1 KDa) .           |

**Storage Buffer** 50 % glycerol

**Storage Instruction** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Cell lysate)

SHMT1 polyclonal antibody (A01), Lot # 051213JC01 Western Blot analysis of SHMT1 expression in HepG2 ( Cat # L019V1 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## Gene Info — SHMT1

**Entrez GeneID** [6470](#)

**GeneBank Accession#** [NM\\_004169](#)

**Protein Accession#** [NP\\_004160](#)

**Gene Name** SHMT1

**Gene Alias** CSHMT, MGC15229, MGC24556, SHMT

**Gene Description** serine hydroxymethyltransferase 1 (soluble)

**Omim ID** [182144](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** 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. [provided by RefSeq]

**Other Designations** 14 kDa protein|cytoplasmic serine hydroxymethyltransferase

## Pathway

- [Cyanoamino acid metabolism](#)
- [Glycine](#)
- [Metabolic pathways](#)
- [Methane metabolism](#)
- [One carbon pool by folate](#)

## Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Bone Neoplasms](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Disease Models](#)
- [Ductus Arteriosus](#)

- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Folic Acid Deficiency](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Heart Defects](#)
- [Hematologic Diseases](#)
- [Hyperhomocysteinemia](#)
- [Hypoplastic Left Heart Syndrome](#)
- [Infant](#)
- [Kidney Diseases](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Mental Disorders](#)
- [Microsatellite Instability](#)
- [Migraine Disorders](#)
- [Migraine with Aura](#)
- [Neoplasms](#)
- [Neural Tube Defects](#)
- [Osteosarcoma](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)

- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Schizophrenia](#)
- [Spinal Dysraphism](#)
- [Startle Reaction](#)
- [Stomach Neoplasms](#)
- [Stroke](#)
- [Urinary Bladder Neoplasms](#)
- [Vitamin B 12 Deficiency](#)
- [Werner syndrome](#)