

SHMT1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14423a**Specification**

SHMT1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P34896](#)**SHMT1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6470**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SHMT1 Antibody (N-term) Blocking Peptide - Protein Information**Name** SHMT1**Function**

Interconversion of serine and glycine (PubMed:8505317, PubMed:24698160).

Cellular Location

Cytoplasm.

SHMT1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SHMT1 Antibody (N-term) Blocking Peptide - Images**SHMT1 Antibody (N-term) Blocking Peptide - Background**

This gene encodes the cellular form of serinehydroxymethyltransferase, a pyridoxal phosphate-containing enzymethat catalyzes the reversible conversion of serine andtetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate.This reaction provides one carbon units for synthesis ofmethionine, thymidylate, and purines in the cytoplasm. This gene islocated within the Smith-Magenis syndrome region on chromosome 17.Alternative splicing of this gene results in 2 transcript variantsencoding 2 different isoforms. Additional transcript variants havebeen described, but their biological validity has not beendetermined.

SHMT1 Antibody (N-term) Blocking Peptide - 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) :