

## SHMT1

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**Reactivity:**Human Rat

**Tested applications:**WB IHC

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:**53kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human SHMT1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

SHMT; CSHMT;

**Catalog #:**A7727

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**6470

**Isotype:**IgG

**Swiss Prot:**P34896

**Purity:**Affinity purification

For research use only.

**Background:**

This gene encodes the cytosolic 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. A pseudogene of this gene is located on the short arm of chromosome 1. Alternative splicing results in multiple transcript variants.

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