

Rabbit Anti-SHMT1/AP Conjugated antibody

SL17468R-AP

Product Name	Anti-SHMT1/AP
Chinese Name	碱性磷酸酶（AP）标记的丝氨酸甲基化酶 cSHMT 抗体
Alias	CSHMT; Cytoplasmic serine hydroxymethyltransferase; cytosolic; GLYC_HUMAN; Glycine hydroxymethyltransferase; Serine hydroxymethyltransferase 1 (soluble); Serine hydroxymethyltransferase; Serine hydroxymethyltransferase, cytosolic; Serine methylase; SHMT; Shmt1.
Research Area	Cell biology Signal transduction The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Rabbit) WB=1:500-2000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	53kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SHMT1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	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. [provided by RefSeq, Aug 2013]

Function:

Interconversion of serine and glycine.

Subcellular Location:

Cytoplasm.

Similarity:

Belongs to the SHMT family.

Database links:

[Entrez Gene: 6470](#) Human

[Entrez Gene: 20425](#) Mouse

[Omim: 182144](#) Human

[SwissProt: P34896](#) Human

[SwissProt: P50431](#) Mouse

[Unigene: 513987](#) Human

[Unigene: 636044](#) Human

[Unigene: 364956](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.