

ARG55531 anti-SHMT1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SHMT1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SHMT1
Species	Human
Immunogen	Recombinant protein sequence corresponding to the c-terminal 180 a.a. of Human SHMT1.
Conjugation	Un-conjugated
Alternate Names	EC 2.1.2.1; SHMT; CSHMT; Serine methylase; Glycine hydroxymethyltransferase; Serine hydroxymethyltransferase, cytosolic

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH7.3), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 20425 Mouse](#)

[GeneID: 6470 Human](#)

[Swiss-port # P34896 Human](#)

[Swiss-port # P50431 Mouse](#)

Gene Symbol

SHMT1

Gene Full Name

serine hydroxymethyltransferase 1 (soluble)

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. [UniProt]

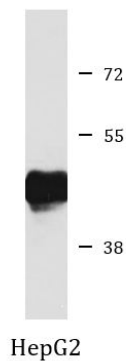
Research Area

Metabolism antibody; Signaling Transduction antibody

Calculated Mw

53 kDa

Images



ARG55531 anti-SHMT1 antibody WB image

Western blot: HepG2 cell lysate stained with ARG55531 anti-SHMT1 antibody.