

ARG44737 anti-SHMT1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes SHMT1
Tested Reactivity	Hu
Tested Application	IHC-P, IP
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Target Name	SHMT1
Species	Human
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
	IHC-P	5-10 µg/mL
	IP	10 µg/mL
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
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 or below. 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

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]

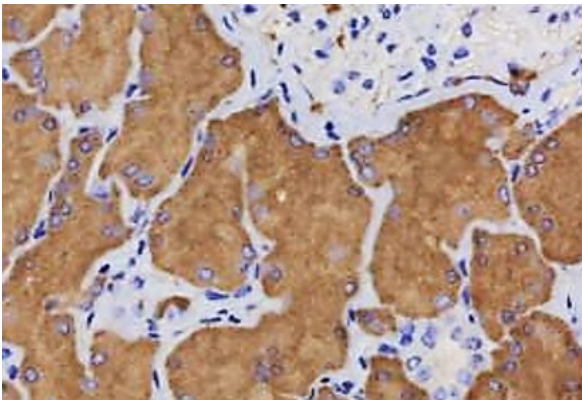
Calculated Mw

53 kDa

PTM

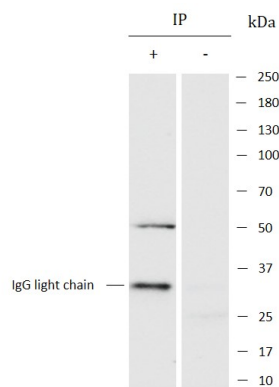
CD40LG induces tyrosine phosphorylation of isoform 3.

Images



ARG44737 anti-SHMT1 antibody IHC-P image

Immunohistochemistry: Human kidney stained with ARG44737 anti-SHMT1 antibody at 5 µg/mL dilution.



ARG44737 anti-SHMT1 antibody IP image

Immunoprecipitation: Jurkat lysate immunoprecipitated with 2.5 µg of ARG44737 anti-SHMT1 antibody.