

ARG57163
anti-SHMT1 antibody [26E5]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [26E5] recognizes SHMT1
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	26E5
Isotype	IgG1, kappa
Target Name	SHMT1
Species	Human
Immunogen	Recombinant fragment around aa. 1-483 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	Assay-dependent
	WB	Assay-dependent

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

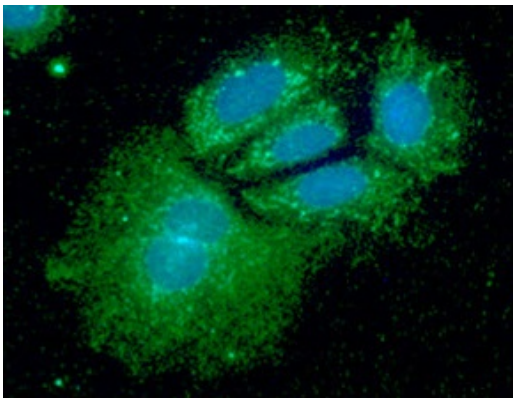
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
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: 6470 Human Swiss-port # P34896 Human
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

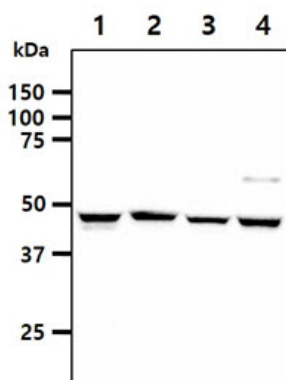
Images



ARG57163 anti-SHMT1 antibody [26E5] ICC/IF image

Immunofluorescence: Hep3B cells line stained with ARG57163 anti-SHMT1 antibody [26E5] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57163 anti-SHMT1 antibody [26E5] WB image

Western blot: 40 µg of 1) A549, 2) HeLa, 3) NIH-3T3, and 4) LnCaP cell lysates stained with ARG57163 anti-SHMT1 antibody [26E5] at 1:1000.