

Mouse anti-Human SHMT1 Monoclonal Antibody | anti-SHMT1 antibody

SHMT1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48224	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

SHMT1; Monoclonal Antibody; SHMT1 antibody; Serine hydroxymethyltransferase 1; CSHMT; SHMT; anti-SHMT1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT26E5
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	483
Applicable Applications for anti-SHMT1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human SHMT1 (1-483aa) purified from E. coli
Clone Note	Anti-human SHMT1 mAb, clone AT26E5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SHMT1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of SHMT1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human SHMT1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SHMT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: A549 cell lysate Lane 2.: HeLa cell lysate Lane 3.: NIH-3T3 cell lysate Lane 4.: LnCaP cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-SHMT1 antibody	Serine hydroxymethyltransferase 1, also known as SHMT1, belongs to the SHMT family. This protein is cellular 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. Also, SHMT1 preferentially supplies one-carbon units for thymidylate biosynthesis, depletes methylenetetrahydrofolate pools for S-adenosylmethionine (SAM) synthesis by synthesizing serine, sequesters 5-methyltetrahydrofolate and inhibits.
Product Categories/Family for anti-SHMT1 antibody	Signal Transduction; Metabolism
References	Garrow TA., et al. (1993) J Biol Chem. 268 (16): 11910-6.; Perry C., et al. (2005) J Biol Chem. 280 (1): 396-400. ; Pinthong C., et al. (2014) FEBS J. 281 (11): 2570-83.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	14124914
NCBI GeneID	6470
Molecular Weight	37,672 Da
NCBI Official Full Name	Serine hydroxymethyltransferase 1 (soluble)
NCBI Official Synonym Full Names	serine hydroxymethyltransferase 1
NCBI Official Symbol	SHMT1
NCBI Official Synonym Symbols	SHMT; CSHMT
NCBI Protein Information	serine hydroxymethyltransferase, cytosolic
UniProt Protein Name	Serine hydroxymethyltransferase, cytosolic
UniProt Gene Name	SHMT1
UniProt Synonym Gene Names	SHMT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/shmt1-antibody-clone-at26e5-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48224>