

Rabbit anti-Human SHMT1 Polyclonal Antibody | anti-SHMT1 antibody

Anti-SHMT1 Antibody, Rabbit Polyclonal

CATALOG # AAA258952	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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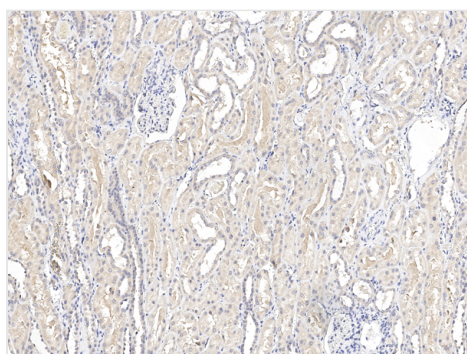
PRODUCT SYNONYMS

SHMT1; Polyclonal Antibody; Anti-SHMT1 Antibody; Rabbit Polyclonal; serine hydroxymethyltransferase 1 (soluble); Anti-CSHMT Antibody; Anti-SHMT Antibody; anti-SHMT1 antibody

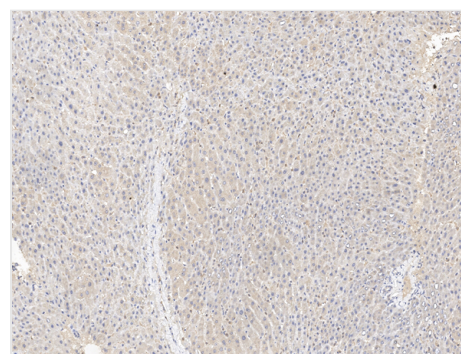
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SHMT1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SHMT1 antibody	IHC (Immunohistochemistry)
Immunogen	E coli-derived Human SHMT1 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human SHMT1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES


IHC (Immunohistochemistry)

Immunochemical staining of human SHMT1 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.


IHC (Immunohistochemistry)

Immunochemical staining of human SHMT1 in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-SHMT1 antibody	The serine hydroxymethyltransferase (SHMT1) is the key enzyme in the folate metabolic pathway to provide a one-carbon unit that plays an important role in biosynthesis and is known to contribute to the development of hypertension. SHMT1 provides one-carbon units necessary for embryogenesis and defects in one-carbon production result in specific pathological conditions during pregnancy. SHMT1 regulates the partitioning of folate-activated one-carbons between thymidylate and S-adenosylmethionine biosynthesis. Therefore, changes in SHMT1 expression enable the determination of the specific contributions made by thymidylate and S-adenosylmethionine biosynthesis to CRC risk. SHMT1 plays critical roles in human cancers including lung cancer, ovarian cancer, and intestinal cancer. An SNP in SHMT1 C1420T may affect the procession of biosynthesis and finally influence cancer occurrence.
References	Wang Q, et al. (2014) Association between cytosolic serine hydroxymethyltransferase (shmt1) gene polymorphism and cancer risk: A meta-analysis. Biomed Pharmacother 68 (6): 757-762. P KR, et al. (2017) Interaction between maternal and paternal shmt1 c1420t predisposes to neural tube defects in the fetus: Evidence from case-control and family-based triad approaches. Birth Defects ResMacfarlane AJ, et al. (2011) Shmt1 heterozygosity impairs folate-dependent thymidylate synthesis capacity and modifies risk of apc(min)-mediated intestinal cancer risk. Cancer Res 71 (6): 2098-2107. Dou C, et al. (2019) Shmt1 inhibits the metastasis of hcc by repressing nox1-mediated ros production. J Exp Clin Cancer Res 38 (1): 70.

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/polyclonal/shmt1-antibody-immunohistochemistry-elisa/258952>