

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

TYMS antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48069	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

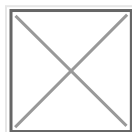
PRODUCT SYNONYMS

TYMS; Monoclonal Antibody; TYMS antibody; HST422; TMS; TS; d TMP synthase; EC 2.1.1.45; MGC88736; Thymidylate synthase; Thymidylate synthetase; Tsase; TYMS protein; Tyms thymidylate synthetase; ; anti-TYMS antibody

PRODUCT SPECIFICATIONS

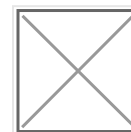
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT21S5
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	313
Applicable Applications for anti-TYMS antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant TYMS (1-313aa) purified from E. coli
Clone Note	Anti-human TYMS mAb, clone AT1S5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TYMS 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)

HeLa cells were stained with monoclonal anti-TYMS antibody (Green). Nucleus and Actin were stained by Phalloidin-TRITC (Red) or Hoechst 33342 (Blue). ICC/IF analysis of TYMS in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TYMS antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The recombinant human TYMS protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TYMS (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant protein Lane 2.: HeLa cell lysate Lane 3.: Jurkat cell lysate Lane 4.: MCF7 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-TYMS antibody	The methylation of deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTTP) is an essential step for the formation of thymine nucleotides. This process is catalyzed by thymidylate synthase (TS or TYMS). TYMS is an intracellular enzyme that provides the sole de novo source of thymidylate in activity highest proliferating cells. Being the exclusive source of dTTP, TS is also an important target for anticancer agents such as 5-fluorouracil (5-FU). 5-FU acts as a TS inhibitor and is active against solid tumors such as colon, breast, head and neck. TS expression may be useful in predicting overall patient survival, but the prognostic value of TS expression continues to be a subject of investigation for different types of cancers.
Product Categories/Family for anti-TYMS antibody	Cancer
References	Shahrokni A, et al., (2009) Clin Colorectal Cancer 8 (4):231-4; Henriquez-Hernandez LA, et al., (2009) Oncol Rep 22 (6):1425-33; Colavito D, et al., (2009) Cancer Chemother Pharmacol 64 (6):1195-200

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507751
NCBI GeneID	7298
NCBI Accession #	NP_001062
NCBI GenBank Nucleotide #	NM_001071.2
UniProt Accession #	P04818; Q8WYK3; Q8WYK4
Molecular Weight	26,140 Da
NCBI Official Full Name	thymidylate synthase
NCBI Official Synonym Full Names	thymidylate synthetase
NCBI Official Symbol	TYMS
NCBI Official Synonym Symbols	TS; TMS; HST422
NCBI Protein Information	thymidylate synthase
UniProt Protein Name	Thymidylate synthase
UniProt Gene Name	TYMS
UniProt Synonym Gene Names	TS; TS; TSase

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/tyms-antibody-clone-at21s5-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48069>