

Rabbit Thymidylate Synthase/TYMS Polyclonal Antibody | anti-TYMS antibody

Anti-Thymidylate Synthase/TYMS Antibody, Rabbit Polyclonal

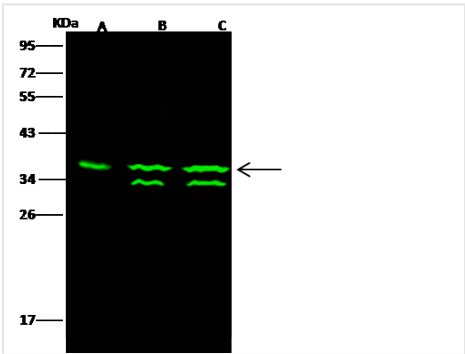
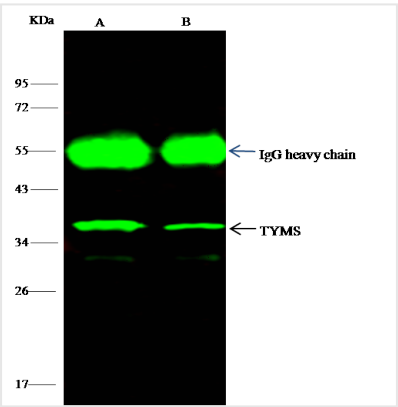
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254726	Rabbit	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

Thymidylate Synthase/TYMS; Polyclonal Antibody; Anti-Thymidylate Synthase/TYMS Antibody; Rabbit Polyclonal; TYMS Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-HST422 Antibody; Anti-OK/SW-cl.29 Antibody; Anti-TMS Antibody; Anti-TS Antibody; anti-TYMS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Thymidylate Synthase/TYMS
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TYMS antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human TYMS
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human TYMS, 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. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-TYMS rabbit polyclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lane B: Jurkat Whole Cell Lysate Lane C: HL60 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti- Rabbit & IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 36 kDa Observed band size: 36 kDa (We are unsure as to the identity of these extra bands).

IP (Immunoprecipitation)
TYMS was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate Lane B: 0.5 mg Hela Whole Cell Lysate 4 uL anti-TYMS rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-TYMS rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 36 kDa Observed band size: 36 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-TYMS antibody	Thymidylate synthase (TYMS) is an essential enzyme for the de novo synthesis of deoxythymidine monophosphate (dTMP) and has been a primary target for cancer chemotherapy. TYMS are key factors involved in survival following surgical treatment in patients with non-small cell lung cancer (NSCLC). Allelic imbalance of TYMS is attributed to polymorphisms in the 5'-and 3'-untranslated region (UTR). These polymorphisms have been related to the risk of suffering different cancers, for example leukemia, breast or gastric cancer, and response to different drugs, among which are methotrexate glutamates, stavudine, and specifically 5-fluorouracil (5-FU), as TYMS is its direct target.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	136611
NCBI GeneID	7298
UniProt Accession #	P04818; Q8WYK3; Q8WYK4
Molecular Weight	Calculated MW: 26kDa/31kDa/35kDa Observed MW: 36kDa
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; TSase
UniProt Protein Name	Thymidylate synthase
UniProt Gene Name	TYMS
UniProt Synonym Gene Names	TS; TS; TSase
UniProt Entry Name	TYSY_HUMAN

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.

