

Datasheet for ABIN2855587

anti-TYMS antibody

8 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	TYMS
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TYMS antibody is un-conjugated
Application:	Immunofluorescence (IF), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Thymidylate synthase. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Thymidylate synthetase (thymidylate synthetase) Thymidylate synthetase antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	TYMS
Alternative Name:	thymidylate synthetase (TYMS Products)

Target Details

Target Type:	Viral Protein
Background:	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occurring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase.
Molecular Weight:	36 kDa
Gene ID:	7298
UniProt:	P04818
Pathways:	Mitotic G1-G1/S Phases

Application Details

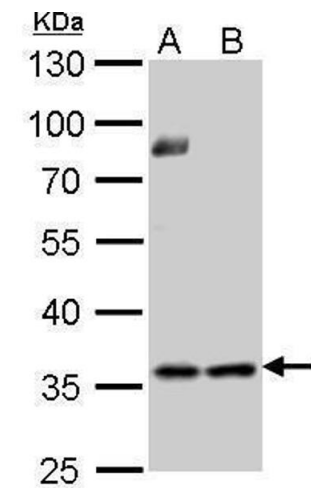
Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IP: 1:100-1:500. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: Jurkat , Raji , THP-1 , Neuro2A , GL261 , C8D30 , NIH-3T3 , BCL-1 , Raw264.7 , C2C12 , PC-12 , Rat2 , 293T , A431 , HeLa , HepG2
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 1 % BSA, 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

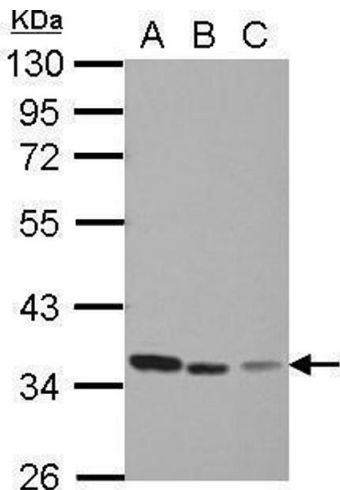
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Validation report #103867 for Immunohistochemistry (IHC)



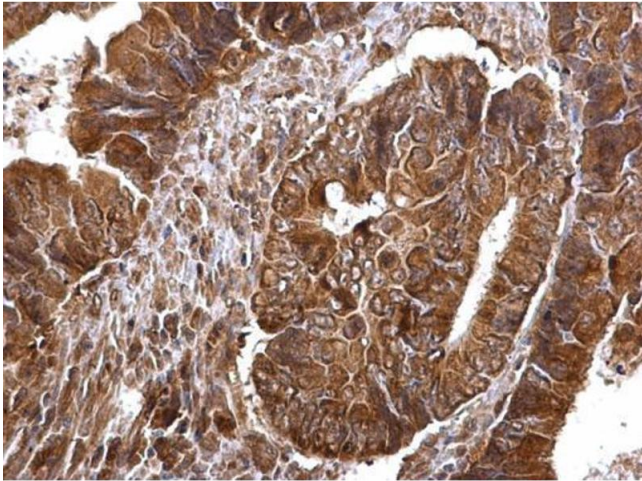
Western Blotting

Image 1. WB Image Thymidylate synthetase antibody detects TYMS protein by Western blot analysis. A. 30 µg PC-12 whole cell lysate/extract B. 30 µg Rat2 whole cell lysate/extract 10 % SDS-PAGE Thymidylate synthetase antibody , dilution: 1:1000



Western Blotting

Image 2. WB Image Sample (30 ug of whole cell lysate) A: Jurkat B: Raji C: THP-1 10% SDS PAGE antibody diluted at 1:1000



Immunohistochemistry

Image 3. IHC-P Image Thymidylate synthetase antibody detects Thymidylate synthetase protein at cytosol and nucleus on human colon carcinoma by immunohistochemical analysis. Sample: Paraffin-embedded human colon carcinoma. Thymidylate synthetase antibody , dilution: 1:500.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2855587.