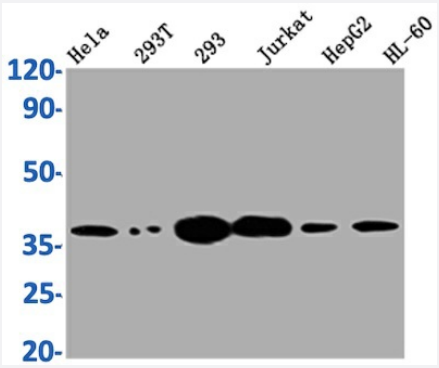
RecomAb™ Sm Size

TYMS recombinant monoclonal antibody, clone 2B2

Catalog # RAB08306 Size 50 uL

Applications



Western Blot

Western Blot analysis of
Lane 1: Hela whole cell lysate;
Lane 2: 293T whole cell lysate;
Lane 3: 293 whole cell lysate;
Lane 4: Jurkat whole cell lysate;
Lane 5: HepG2 whole cell lysate;
Lane 6: HL-60 whole cell lysate.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human TYMS.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human TYMS.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot

  Western Blot analysis of
  Lane 1: Hela whole cell lysate;
  Lane 2: 293T whole cell lysate;
  Lane 3: 293 whole cell lysate;
  Lane 4: Jurkat whole cell lysate;
  Lane 5: HepG2 whole cell lysate;
  Lane 6: HL-60 whole cell lysate.

Gene Info — TYMS

Entrez GeneID	7298
Protein Accession#	P04818
Gene Name	TYMS
Gene Alias	HsT422, MGC88736, TMS, TS, TSase
Gene Description	thymidylate synthetase
Omim ID	188350
Gene Ontology	Hyperlink
Gene Summary	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thym idine-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 occuring antisense transcript rTSalpha (GeneID:55556) vary inver sely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq
Other Designations	Thymidylate synthase

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Pathway

- Metabolic pathways
- One carbon pool by folate
- Pyrimidine metabolism

Disease

- Abortion
- Acute Disease
- Adenocarcinoma
- Adenoma
- Adenomatous Polyps
- Aortic Aneurysm
- Arthritis
- Atherosclerosis
- Barrett Esophagus
- Behcet Syndrome
- Bile Duct Neoplasms
- Bone Neoplasms
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Central Nervous System Neoplasms
- Cholangiocarcinoma

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Cleft Lip
- Cleft Palate
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Coronary Artery Disease
- Dementia
- Diabetes Mellitus
- Diarrhea
- Disease Progression
- DNA Damage
- Down Syndrome
- Drug Toxicity
- Edema
- Endometrial Neoplasms
- Esophageal Neoplasms
- Fatigue
- Folic Acid Deficiency
- Gastrointestinal Diseases
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Head and Neck Neoplasms
- Heart Defects
- Helicobacter Infections
- Hematologic Diseases

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Hyperhomocysteinemia
- Hyperplasia
- Hyperuricemia
- Joint Diseases
- Kidney Diseases
- Kidney Failure
- Laryngeal Neoplasms
- Leukemia
- Leukopenia
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Metaplasia
- Micronuclei
- Microsatellite Instability
- Migraine Disorders
- Migraine with Aura
- Mouth Neoplasms
- Mucositis
- Multiple Myeloma
- Myelodysplastic Syndromes
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Neoplasms
- Neoplastic Processes
- Neural Tube Defects
- Neurotoxicity Syndromes
- Neutropenia
- Osteonecrosis
- Osteosarcoma
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Prostate cancer
- Prostatic Neoplasms
- Psoriasis
- Pulmonary Disease
- Rectal Neoplasms
- Recurrence
- Retinal Neoplasms
- Retinoblastoma
- Spinal Dysraphism
- Stomach Neoplasms
- Stroke
- Urinary Bladder Neoplasms

- Venous Thrombosis
- Vitamin B 12 Deficiency

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Vomiting
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.