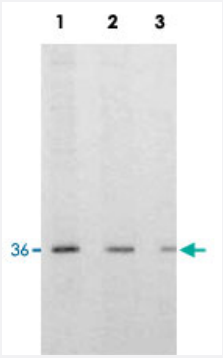
TYMS polyclonal antibody

Catalog # PAB11275 Size 100 uL

Applications



Western Blot (Cell lysate)

TYMS polyclonal antibody (Cat # PAB11275) is shown to detect TYMS present in HeLa cell extract.
Each lane is estimated to contain 4 ug of protein.
Lanes 1, 2 and 3 represent 1:500, 1:1,000 and 1:2,000 fold dilutions of the antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant TYMS.
Immunogen	Recombinant protein corresponding to human TYMS.
Host	Rabbit
Reactivity	Bacteria, Human, Monkey, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western Blot (1:1000) ELISA (1:100000) Immunohistochemistry (1:100) Immunoprecipitation (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In antiserum (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

  TYMS polyclonal antibody (Cat # PAB11275) is shown to detect TYMS present in HeLa cell extract.
  Each lane is estimated to contain 4 ug of protein.
  Lanes 1, 2 and 3 represent 1:500, 1:1,000 and 1:2,000 fold dilutions of the antibody.

Gene Info — TYMS

Entrez GeneID	7298
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

Publication Reference

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- Characterization of a polyclonal antibody to human thymidylate synthase suitable for the study of colorectal cancer specimens.

  Haqqani AS, Cowling RT, Maroun JA, Birnboim HC.

  The Journal of Histochemistry and Cytochemistry 1999 Dec; 47(12):1563.

  Application: ELISA, ICC, IF, IHC-P, IP, WB-Ce, WB-Tr, Human, Monkey, Rat, COS-1, HEK 293T, HeLa, HL-60 cells Human colorectal cancer specimens, Neutrophils, OSE cells, Skin fibroblasts

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

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- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Central Nervous System Neoplasms
- Cholangiocarcinoma
- 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

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- Genetic Predisposition to Disease
- Graft vs Host Disease
- Head and Neck Neoplasms
- Heart Defects
- Helicobacter Infections
- Hematologic Diseases
- 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

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- Mucositis
- Multiple Myeloma
- Myelodysplastic Syndromes
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- 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

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- Stomach Neoplasms
- Stroke
- Urinary Bladder Neoplasms
- Venous Thrombosis
- Vitamin B 12 Deficiency
- Vomiting
- Werner syndrome

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