

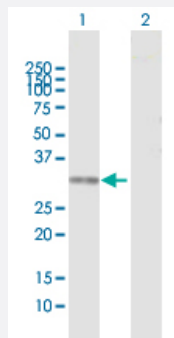
MaxPab®

# TYMS MaxPab rabbit polyclonal antibody (D01)

Catalog # H00007298-D01

Size 100 uL

## Applications

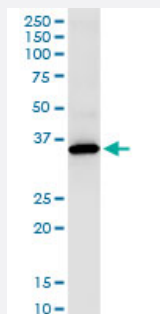


### Western Blot (Transfected lysate)

Western Blot analysis of TYMS expression in transfected 293T cell line ([H00007298-T02](#)) by TYMS MaxPab polyclonal antibody.

Lane 1: TYMS transfected lysate(35.70 KDa).

Lane 2: Non-transfected lysate.



### Immunoprecipitation

Immunoprecipitation of TYMS transfected lysate using anti-TYMS MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with TYMS purified MaxPab mouse polyclonal antibody (B01P) ([H00007298-B01P](#)).

## Specification

### Product Description

Rabbit polyclonal antibody raised against a full-length human TYMS protein.

### Immunogen

TYMS (AAH13919.1, 1 a.a. ~ 313 a.a) full-length human protein.

### Sequence

MPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGGIQLHRCGVRKDDRTGTGTLGVFGMQAR  
YSLRDEFPLLTTRVFWKGVLEELLWFIKGSTNAKELSSKGVKWDANGSRDFLDLGFSTREEG  
DLGPVYGFQWRHFGAEYRDMESDYSQQGVDQLQRVIDTIKTNPDDRRIMCAWNPRDLPLMALP  
PCHALCQFYVNSELSCLYQQRSGDMGLGVFPNIASYALLTYMAHITGLKPGDFIHTLGDAHYLNH  
IEPLKIQLRQREPRFPKLRILRKEIDDFKAEDFQIEGYNPHPTIKMEMAV

### Host

Rabbit

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Reactivity              | Human                                                                    |
| Quality Control Testing | Antibody reactive against mammalian transfected lysate.                  |
| Storage Buffer          | No additive                                                              |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

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[Protocol Download](#)

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[Protocol Download](#)

## Gene Info — TYMS

|                     |                                  |
|---------------------|----------------------------------|
| Entrez GeneID       | <a href="#">7298</a>             |
| GeneBank Accession# | <a href="#">NM_001071.1</a>      |
| Protein Accession#  | <a href="#">AAH13919.1</a>       |
| Gene Name           | TYMS                             |
| Gene Alias          | HsT422, MGC88736, TMS, TS, TSase |
| Gene Description    | thymidylate synthetase           |
| Omim ID             | <a href="#">188350</a>           |
| Gene Ontology       | <a href="#">Hyperlink</a>        |

**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 (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. [provided by RefSeq]

**Other Designations**

Thymidylate synthase

**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](#)
- [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](#)
- [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](#)
- [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](#)
- [Vomiting](#)
- [Werner syndrome](#)