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Product datasheet for CF801663

Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody [Clone ID: OTI1C3]

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|--|
| Clone Name: | OTI1C3 |
| Applications: | WB |
| Recommended Dilution: | WB 1:2000 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| lsotype: | lgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human TYMS (NP_001062) produced in E.coli. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 35.5 kDa |
| Gene Name: | thymidylate synthetase |
| Database Link: | <u>NP_001062</u> <u>Entrez Gene 22171 MouseEntrez Gene 29261 RatEntrez Gene 7298 Human</u> <u>P04818</u> |



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| | Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody [Clone ID: OTI1C3] – CF801663 | | |
|-------------------|---|--|--|
| 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 occuring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq, Jul 2008] | | |
| Synonyms: | HST422; TMS; TS | | |
| Protein Families: | Druggable Genome | | |
| Protein Pathway | Metabolic pathways, One carbon pool by folate, Pyrimidine metabolism | | |

Product images:

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| 170 | _ | |
|-----|---|---|
| 130 | - | |
| 100 | - | |
| 70 | _ | |
| 55 | - | |
| 40 | - | |
| 35 | - | - |
| 25 | - | |
| 15 | - | - |
| 10 | - | |
| | | |

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TYMS ([RC204814], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TYMS. Positive lysates [LY420700] (100ug) and [LC420700] (20ug) can be purchased separately from OriGene.

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