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Product datasheet for AM50313PU-S

Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody [Clone ID: TMS715]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TMS715
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	 ELISA: Use BSA free Antibody for coaating. Flow Cytometry: 0.5-1 µg/million cells. Immunofluorescence: 0.5-1 µg/ml. Immunoprecipitation: 0.5-1 µg/500 µg protein lysate. Immunohistochemistry on Frozen and Formalin-Fixed Sections: 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1); 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human Thymidylate synthase.
Specificity:	lt recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45). Cellular Localization : Cytoplasmic.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatoghraphy
Conjugation:	Unconjugated



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	dylate Synthase (TYMS) Mouse Monoclonal Antibody [Clone ID: TMS715] – AM50313PU-S
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	36 kDa
Gene Name:	thymidylate synthetase
Database Link:	<u>Entrez Gene 7298 Human</u> <u>P04818</u>
Background:	TS converts deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP), which is essential for DNA biosynthesis. TS is also a critical target for the fluoropyrimidines, an important group of antineoplastic drugs that are widely used in the treatment of solid tumors. Both 5-FU and fluorodeoxyuridine are converted in tumor cells to FdUMP which inactivates TS by formation of a ternary covalent complex in the presence of the folate cofactor 5,10-methylenetetrahydrofolate. Expression of TS protein is associated with response to 5-fluorouracil (5-FU) in human colorectal, gastric, head and neck, and breast carcinomas.
Synonyms:	TYMS, TSase, OK/SW-cl.29

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