

Monoclonal Antibody to Human Thymidylate Synthase

Catalog No.:	DM3213
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	TS106
Immunogen:	Recombinant human TS enzyme
Applications:	ELISA (For coating, order Ab without BA). Flow Cytometry. Immunofluorescence. Immunoprecipitation (Native verified): Use Protein G; Ab 2 micrograms/mg protein lysate. Western Blotting: Ab 1-2 micrograms/ml for 2hrs at RT. Immunohistology (formalin/paraffin): Use Ab at 5-10 micrograms/ml for 30 min at RT) -(1:40) Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0. Recommended positive control: 5-FU-resistant cell cancer lines or colon carcinoma. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Thymidylate Synthase (TS) 1 (EC 2.1.1.45) converts deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP), which is essential for DNA biosynthesis. Expression of TS protein is associated with response to 5-fluorouracil (5-FU) in human colorectal, gastric, head, neck, and breast carcinomas. Cellular Localization Cytoplasmic, Nuclear. Mol. Wt. of Antigen: 36kD
Storage:	Store the antibody at 4°C. Do not freeze! Shelf life: one year from despatch.
General Readings:	1. Johnston PG, et. al. Cancer Res, 1991, 51(24):6668-76. 2. Johnston PG, et. al. Cancer Res, 1992, 52(16):4306-12. 3. Johnston PG, et. al. Biochem Pharmac, 1993, 45:2483-6. 4. Johnston PG, et. al. J Clin Oncol, 1994, 12(12):2640-7. 5. Johnston PG, et. al. Cancer Res, 1995, 55(7):1407-12. 6. Johnston PG, et. al. J Natl Cancer Inst, 1997, 89(4):308-13. 7. Pestalozzi BC, et. al. J Clin On