#5653 Store at -20C

Thymidylate Synthase (TS106) Mouse mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Mouse IgG1	UniProt ID: #P04818	Entrez-Gene Id: 7298
Product Usage Information		Application Western Blotting		Dilution 1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Thymidylate Synthase (TS106) Mouse mAb detects endogenous levels of total Thymidylate Synthase protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with full-length recombinant human Thymidylate Synthase protein.				
Background	essi thyr enz bios hav 5). 5 Res high	ential step in the form midylate synthase (T yme that provides the synthesis with activitie concluded that TS 5-FU acts as a TS in search studies have her response rate to	mation of thymine S or TYMS), a had be sole de novo s y highest in prolific is also an import with its act demonstrated that treatment with 5-	nosphate (dUMP) to deo e nucleotides (1,2, revier pmodimer composed of ource of thymidylate, ma erating cells (1). Being to tant target for anticance ive against solid tumors at patients with metastas FU than patients with tu expression in different ty	wed in 3). This proces two 30 kDa subunits. aking it a required enz he exclusive source or agents such as 5-flucture as colon, breast ses expressing lower I imors that have increast	ss is catalyzed by TS is an intracellular ryme in DNA of dTMP, investigators orouracil (5-FU) (1- t, head, and neck. levels of TS have a ased levels of TS (5).
Background References		1. Johnston, P.G. et al. (1991) <i>Cancer Res</i> 51, 6668-76. 2. Aschele, C. et al. (2002) <i>Ann Oncol</i> 13, 1882-92. 3. Jackman, A.L. and Calvert, A.H. (1995) <i>Ann Oncol</i> 6, 871-81. 4. Van Triest, B. et al. (2000) <i>J Histochem Cytochem</i> 48, 755-60. 5. Johnston, P.G. et al. (1994) <i>J Clin Oncol</i> 12, 2640-7. 6. Kwon, H.C. et al. (2007) <i>Ann Oncol</i> 18, 504-9. 7. Allegra, C.J. et al. (2002) <i>J Clin Oncol</i> 20, 1735-43. 8. Allegra, C.J. et al. (2003) <i>J Clin Oncol</i> 21, 241-50. 9. Tsourouflis, G. et al. (2008) <i>Dig Dis Sci</i> 53, 1289-96. 10. Kim, S.H. et al. (2009) <i>Am J Clin Oncol</i> 32, 38-43.				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and

Patents

 $\hbox{ Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. } \\$

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited Uses

Thymidylate Synthase (TS106) Mouse mAb (#5653) Datasheet Without Images Cell Signaling Technology

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.