## Thymidylate Synthase (D5B3) XP® Rabbit mAb 5006 \$1007 640



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

<b>Applications:</b> W, IHC-P, IF-IC, FC- FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 30	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P04818	Entrez-Gene Id: 7298	
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemist Immunofluorescence Flow Cytometry (Fixed	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:200 1:50 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
		For a carrier free (BSA and azide free) version of this product see product #81327.					
Specificity/Sen	sitivity	Thymidylate Synthase (D5B3) XP <sup>®</sup> Rabbit mAb detects endogenous levels of total thymidyla protein.		ymidylate synthase			
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresp residues near the carboxy terminus of human thymidylate synthase protein.		orresponding to			
Background		is an essential step in catalyzed by thymidyl an intracellular enzym enzyme in DNA biosy dTMP, investigators h fluorouracil (5-FU) (1-! breast, head, and nec lower levels of TS hav have increased levels cancers (6-10). Levels of thymidylate FU and lapatinib. 5-FL	the formation of th ate synthase (TS or ne that provides the nthesis with activity ave concluded that 5). 5-FU acts as a TS k. Research studies e a higher response of TS (5). Researche synthase can be mo J treatment induces	nosphate (dUMP) to deor ymine nucleotides (1,2, r TYMS), a homodimer con sole <i>de novo</i> source of thighest in proliferating TS is also an important to inhibitor and is active ag have demonstrated that rate to treatment with S rs continue to investigate odultated <i>in vitro</i> by treat the formation of two dise ent results in a decrease	reviewed in 3). This mposed of two 30 chymidylate, makin cells (1). Being the arget for anticance gainst solid tumors t patients with met 5-FU than patients to FS expression in tment with various stinct bands, one a	process is kDa subunits. TS is g it a required exclusive source of er agents such as 5- such as colon, astases expressing with tumors that different types of a drugs, such as 5- t 35 kDa and	
Background Re	ferences	1. Johnston, P.G. et al. 2. Aschele, C. et al. (20 3. Jackman, A.L. and C 4. Van Triest, B. et al. 5. Johnston, P.G. et al. 6. Kwon, H.C. et al. (20 7. Allegra, C.J. et al. (2 8. Allegra, C.J. et al. (2 9. Tsourouflis, G. et al 10. Kim, S.H. et al. (1993) 11. Chu, E. et al. (1993)	202) Ann Oncol 13, 1 Calvert, A.H. (1995) A (2000) J Histochem ( (1994) J Clin Oncol 207) Ann Oncol 18, 5 2002) J Clin Oncol 20, 203) J Clin Oncol 21, . (2008) Dig Dis Sci 5 209) Am J Clin Oncol 3) Mol Pharmacol 43	882-92. Ann Oncol 6, 871-81. Cytochem 48, 755-60. 12, 2640-7. 504-9. 1735-43. 241-50. 53, 1289-96. 32, 38-43. 527-33.			
Species Reactiv	vity	Species reactivity is d	etermined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody i	n 5% w/v BSA, 1X	

Applications Key	<b>W:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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