Revision 4					
Thymidylate Synthase (D5B3) XP [®] Rabbit mAb					
Sto				Orders:	877-616-CELL (2355) orders@cellsignal.com
2				Support:	877-678-TECH (8324)
#9045				Web:	info@cellsignal.com cellsignal.com
			3 Trask L	ane Danvers Ma	ssachusetts 01923 USA
For Research Use Only. Not for					
Applications: Reactiv WB, IHC-P, IF-IC, FC- H M R FP		MW (kDa): 30	Source/Isotype: Rabbit	UniProt ID: #P04818	Entrez-Gene Id: 7298
Product Usage	Application				Dilution
Information	Western Blotting				1:1000
	Immunohistochemistry	(Paraffin)			1:200
	Immunofluorescence (2	nistry)		1:50
	Flow Cytometry (Fixed	/Permeabilized)			1:100
Storage			7.5), 150 mM NaCl, 100 o not aliquot the antibody		vcerol and less than
	For a carrier free (BSA	and azide free) v	ersion of this product se	e product #81327.	
Specificity / Sensitivity	Thymidylate Synthase (protein.	D5B3) XP [®] Rabl	bit mAb detects endoger	nous levels of total t	hymidylate synthase
Source / Purification	Monoclonal antibody is residues near the carbo		nunizing animals with a s uman thymidylate syntha		rresponding to
Background	thymidylate synthase (T enzyme that provides th biosynthesis with activit have concluded that TS 5). 5-FU acts as a TS in Research studies have higher response rate to Researchers continue to Levels of thymidylate sy and lapatinib. 5-FU trea	mation of thymine S or TYMS), a h se sole <i>de novo</i> s y highest in proliti is also an impor hibitor and is act demonstrated that treatment with 5 o investigate TS ynthase can be m tment induces th	e nucleotides (1,2, review omodimer composed of source of thymidylate, ma ferating cells (1). Being t tant target for anticance tive against solid tumors at patients with metastas -FU than patients with tu expression in different ty nodultated <i>in vitro</i> by trea	wed in 3). This proc two 30 kDa subunit aking it a required e he exclusive source r agents such as 5-f such as colon, brea ses expressing lowe mors that have incr upes of cancers (6-1 atment with various ct bands, one at 35	ess is catalyzed by s. TS is an intracellular nzyme in DNA e of dTMP, investigators duorouracil (5-FU) (1- ast, head, and neck. er levels of TS have a eased levels of TS (5). 0). drugs, such as 5-FU kDa and another at 38
Background References	 Johnston, P.G. et al. (2) Aschele, C. et al. (20) Jackman, A.L. and C. Van Triest, B. et al. (2) Johnston, P.G. et al. (2) Johnston, H.C. et al. (200) Allegra, C.J. et al. (200) Tsourouflis, G. et al. (2009) Chu, E. et al. (1993) Kim, H.P. et al. (2009) 	02) Ann Oncol 1: alvert, A.H. (1995 2000) J Histocher (1994) J Clin Onco 07) Ann Oncol 18 002) J Clin Oncol 003) J Clin Oncol 2008) Dig Dis Sc 0) Am J Clin Onco Mol Pharmacol 4	3, 1882-92. 5) Ann Oncol 6, 871-81. m Cytochem 48, 755-60. col 12, 2640-7. 3, 504-9. 20, 1735-43. 21, 241-50. ci 53, 1289-96. ol 32, 38-43. 3, 527-33.		
Species Reactivity	Species reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			primary antibody in	5% w/v BSA, 1X TBS,

2/15/24, 11:36 AM	Thymidylate Synthase (D5B3) XP® Rabbit mAb (#9045) Datasheet Without Images Cell Signaling Techn
Applications Key	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity I	 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
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