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449

 Thymidylate Synthase (D26G11)
 Image: Cell Signaling Technology

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

Applications: WB, IP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 30	Source/Isotype: Rabbit IgG	UniProt ID: #P04818	Entrez-Gene Id: 7298
Product Usage Information	Wes	Dication stern Blotting nunoprecipitation			<b>Dilution</b> 1:1000 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.				
Specificity / Sens		Thymidylate Synthase (D26G11) Rabbit mAb detects endogenous levels of total Thymidylate Synthase protein.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human Thymidylate Synthase protein.				
Background	esse thym enzy biosy have 5). 5 Rese highe	The methylation of deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP) is an essential step in the formation of thymine nucleotides (1,2, reviewed in 3). This process is catalyzed by thymidylate synthase (TS or TYMS), a homodimer composed of two 30 kDa subunits. TS is an intracellular enzyme that provides the sole <i>de novo</i> source of thymidylate, making it a required enzyme in DNA biosynthesis with activity highest in proliferating cells (1). Being the exclusive source of dTMP, investigators have concluded that TS is also an important target for anticancer agents such as 5-fluorouracil (5-FU) (1-5). 5-FU acts as a TS inhibitor and is active against solid tumors such as colon, breast, head, and neck. Research studies have demonstrated that patients with metastases expressing lower levels of TS have a higher response rate to treatment with 5-FU than patients with tumors that have increased levels of TS (5). Researchers continue to investigate TS expression in different types of cancers (6-10).				
Background Ref	2. As 3. Ja 4. Va 5. Jo 6. Kv 7. All 8. All 9. Ts		2) Ann Oncol 13 Ivert, A.H. (1995 000) J Histocher 1994) J Clin Oncol 17) Ann Oncol 18 02) J Clin Oncol 03) J Clin Oncol 2008) Dig Dis Sc	3, 1882-92. 5) Ann Oncol 6, 871-81. n Cytochem 48, 755-60 col 12, 2640-7. 3, 504-9. 20, 1735-43. 21, 241-50. ci 53, 1289-96.		
Species Reactivi	<b>ty</b> Speci	es reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	stern blot).
		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key WE		WB: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity	X: Xe	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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Limited Uses						

Thymidylate Synthase (D26G11) Rabbit mAb (#5449) Datasheet Without Images Cell Signaling Technology

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