Store at -20C

#9583

PTEN (138G6) Rabbit mAb (Biotinylated)



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #P60484	Entrez-Gene Id: 5728		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100			
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>						
Specificity/Sen	sitivity	PTEN (138G6) Rabbit mAb (Biotinylated) detects endogenous levels of total PTEN protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human PTEN.						
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The unconjugated PTEN (26H9) Mouse mAb #9556 reacts with human, mouse, rat, monkey and hamster PTEN. CST expects that PTEN (138G6) Rabbit mAb (Biotinylated) will also recognize PTEN in these species.						
Background		PTEN (phosphatase and tensin homologue deleted on chromosome ten), also referred to as MMAC (mutated in multiple advanced cancers) phosphatase, is a tumor suppressor implicated in a wide variety of human cancers (1). PTEN encodes a 403 amino acid polypeptide originally described as a dual-specificity protein phosphatase (2). The main substrates of PTEN are inositol phospholipids generated by the activation of the phosphoinositide 3-kinase (PI3K) (3). PTEN is a major negative regulator of the PI3K/Akt signaling pathway (1,4,5). PTEN possesses a carboxy-terminal, noncatalytic regulatory domain with three phosphorylation sites (Ser380, Thr382, and Thr383) that regulate PTEN stability and may affect its biological activity (6,7). PTEN regulates p53 protein levels and activity (8) and is involved in G protein-coupled signaling during chemotaxis (9,10).						
Background Re	eferences	 Cantley, L.C. and Neel, B.G. (1999) <i>Proc Natl Acad Sci USA</i> 96, 4240-5. Myers, M.P. et al. (1997) <i>Proc Natl Acad Sci USA</i> 94, 9052-7. Myers, M.P. et al. (1998) <i>Proc Natl Acad Sci USA</i> 95, 13513-8. Wan, X. and Helman, L.J. (2003) <i>Oncogene</i> 22, 8205-11. Wu, X. et al. (1998) <i>Proc Natl Acad Sci USA</i> 95, 15587-91. Vazquez, F. et al. (2000) <i>Mol Cell Biol</i> 20, 5010-8. Torres, J. and Pulido, R. (2001) <i>J Biol Chem</i> 276, 993-8. Freeman, D.J. et al. (2003) <i>Cancer Cell</i> 3, 117-30. Funamoto, S. et al. (2002) <i>Cell</i> 109, 611-23. III, Iijima, M. and Devreotes, P. (2002) <i>Cell</i> 109, 599-610. 						
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					1 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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