PTCH1 (C53A3) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 180-210	Source/Isotype: Rabbit IgG lambda	UniProt ID: #Q13635	Entrez-Gene Id: 5727		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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/Sen	sitivity	PTCH1 (C53A3) Rabbit mAb detects immunoprecipitated or transfected levels of PTCH1.						
Source / Purific	Province of Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Pro1307 of human PTCH1.				prresponding to			
Background		Patched1 and 2 (PTCH1 and PTCH2) are twelve-pass transmembrane proteins that function as the receiving receptors for members of the Hedgehog family of proteins (1-4). In the absence of Hedgehog proteins, PTCH suppresses the otherwise constitutively active signaling receptor Smoothened (Smo) so that the Hedgehog signaling pathway is in the off state (5,6). Deactivating mutations that impair the ability of PTCH1 to suppress Smo are frequently found in patients with nevoid basal cell carcinoma syndrome (7,8). PTCH proteins have a sterol-sensing domain (SSD) also found in several proteins that function in cholesterol homeostasis, such as HMGCR (3-hydroxy-3-methylglutaryl coenzyme A-reductase) and SCAP (sterol regulatory element-binding protein-cleavage activating protein). However, the role of the SSD in Patched proteins is not clear (9,10). PTCH1 itself is a target of Hedgehog signaling (11), with elevated PTCH1 expression as a surrogate marker for Hedgehog pathway activation (12-14).						
Background Re	eferences	 Stone, D.M. et al. (1996) <i>Nature</i> 384, 129-134. Chen, Y. and Struhl, G. (1996) <i>Cell</i> 87, 553-563. Motoyama, J. et al. (1998) <i>Nat. Genet.</i> 18, 104-106. Smyth, I. et al. (1999) <i>Hum. Mol. Genet.</i> 8, 291-297. Ingham, P.W. and McMahon, A.P. (2001) <i>Genes Dev.</i> 15, 3059-3087. McMahon, A.P. et al. (2003) <i>Curr. Top. Dev. Biol.</i> 53, 1-114. Hahn, H. et al. (1996) <i>Cell</i> 85, 841-851. Johnson, R.L. et al. (1996) <i>Science</i> 272, 1668-1671. Kuwabara, P.E. and Labouesse, M. (2002) <i>Trends Genet.</i> 18, 193-201. Chang, T.Y. et al. (2006) <i>Annu. Rev. Cell Dev. Biol.</i> 22, 129-157. Agren, M. et al. (2003) <i>Nature</i> 422, 313-317. Berman, D.M. et al. (2003) <i>Nature</i> 431, 707-712. 						
Species Reactiv	/ity	Species reactivity is det	ermined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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.				1 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human						
Trademarks an	d Patents	Its Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.						

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