PTCH2 (L849) Antibody



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Applications: W, IP	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #Q9Y6C5	Entrez-Gene Id: 8643
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PTCH2 (L849) Antibody detects transfected levels of PTCH2 protein. It does not recognize transfected levels of human PTCH1. This antibody also cross-reacts with an unidentified protein at 55 kDa.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region (predicted to be extracellular) surrounding residue Leu849 of human PTCH2. Antibodies are purified by protein A and peptide affinity chromatography.				
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).				
Background References		 Stone, D.M. et al. (1996) Nature 384, 129-134. Chen, Y. and Struhl, G. (1996) Cell 87, 553-563. Motoyama, J. et al. (1998) Nat. Genet. 18, 104-106. Smyth, I. et al. (1999) Hum. Mol. Genet. 8, 291-297. Ingham, P.W. and McMahon, A.P. (2001) Genes Dev. 15, 3059-3087. McMahon, A.P. et al. (2003) Curr. Top. Dev. Biol. 53, 1-114. Hahn, H. et al. (1996) Cell 85, 841-851. Johnson, R.L. et al. (1996) Science 272, 1668-1671. Kuwabara, P.E. and Labouesse, M. (2002) Trends Genet. 18, 193-201. Chang, T.Y. et al. (2006) Annu. Rev. Cell Dev. Biol. 22, 129-157. 				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer 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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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