PTCH2 (G1191) Antibody



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Applications: WB, IP	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 130	Source: Rabbit	UniProt ID: #Q9Y6C5	Entrez-Gene Id 8643	
Product Usage Information	Application			Dilution			
	We	estern Blotting		1:1000			
	Imi	munoprecipitation		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 / Sensit		PTCH2 (G1191) Antibody detects transfected levels of PTCH2 protein. It does not recognize transfected levels of human PTCH1 protein.					
Source / Purification	regi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region (predicted to be intracellular) surrounding residue Gly1191 of human PTCH2. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	rece prot that of P (7,8 cho (ste	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 Refer	2. C 3. M 4. S	 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. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved 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

WB: Western Blotting IP: Immunoprecipitation

7. Hahn, H. et al. (1996) Cell 85, 841-851.

Cross-Reactivity Key

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

6. McMahon, A.P. et al. (2003) Curr. Top. Dev. Biol. 53, 1-114.

9. Kuwabara, P.E. and Labouesse, M. (2002) Trends Genet. 18, 193-201. 10. Chang, T.Y. et al. (2006) Annu. Rev. Cell Dev. Biol. 22, 129-157.

8. Johnson, R.L. et al. (1996) Science 272, 1668-1671.

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