

Smurf1 Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 81	Source/Isotype: Rabbit	UniProt ID: #Q9HCE7	Entrez-Gene Id: 57154
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		Smurf1 Antibody detects endogenous levels of total Smurf1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a central region within human Smurf1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		wide range of critical differentiation, and a kinase receptors. Ligathese receptors (3-5). terminal motif SSXS, a phosphorylated SMAI they regulate the trar phosphorylate residu Ser206 recruits Smurat this site also promo	processes including poptosis (1,2). BMP and binding induces They subsequently as well as SMAD5 ar Ds dimerize with the scription of target les in the linker region tes SMAD1 transcription of target of the HECT family of the HECT family of the SMAD1 transcription Smad protein ibitor Smad, Smad7 negatively regulater, Smurf2, acts metal individuals.	nstitute a large family of morphogenesis, cell-fareceptors are members multimerization, autop phosphorylate SMAD1 and SMAD9 (SMAD8) at the coactivating SMAD4 and genes (5). MAP kinases a con of SMAD1, including the coactivity by recruited activity by recruited autiquitination and degretation and degre	te determination, p of the TGF-β super hosphorylation, and it Ser463 and Ser46 eir corresponding s id translocate to the ind CDKs 8 and 9 ar Ser206. Phosphoryl adation of SMAD1 (iting YAP to the link ectively interacts wi adation (6). In addi cription factor Run- tion and bone form	proliferation, family of Ser/Thr d activation of is in the carboxy- sites. These e nucleus, where re also reported to lation of SMAD1 at is. Phosphorylation iter region (7). th BMP pathway tion, Smurf1 x2/Cbfa1, RhoA and lation in vivo
Background References		1. Hogan, B.L. (1996) <i>Genes Dev</i> 10, 1580-94. 2. Hoodless, P.A. et al. (1996) <i>Cell</i> 85, 489-500. 3. Klemm, J.D. et al. (1998) <i>Annu Rev Immunol</i> 16, 569-92. 4. Kretzschmar, M. et al. (1997) <i>Genes Dev</i> 11, 984-95. 5. Whitman, M. (1998) <i>Genes Dev</i> 12, 2445-62. 6. Sapkota, G. et al. (2007) <i>Mol Cell</i> 25, 441-54. 7. Alarcón, C. et al. (2009) <i>Cell</i> 139, 757-69. 8. Zhu, H. et al. (1999) <i>Nature</i> 400, 687-693. 9. Ebisawa, T. et al. (2001) <i>J. Biol. Chem.</i> 276, 12477-12480. 10. Zhao, M. et al. (2003) <i>J. Biol. Chem.</i> 278, 27939-27944. 11. Wang, H.R. et al. (2003) <i>Science</i> 302, 1775-1779. 12. Yamashita, M. et al. (2005) <i>Cell</i> 121, 101-113. 13. Zhao, M. et al. (2004) <i>J. Biol. Chem.</i> 279, 12854-12859. 14. Zhang, Y. et al. (2001) <i>Proc. Natl. Acad. Sci. U S A</i> 98, 974-979.				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key H: Human

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