

Smad6 Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #O43541	Entrez-Gene Id: 4091
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Smad6 Antibody detects endogenous levels of total Smad6 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding cysteine 55 of human Smad6. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		Members of the SMAD family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF-β signals from the cell surface into the nucleus. Three distinct classes of SMADs have been defined: the receptor-regulated SMADs (R-SMADs), which include SMAD1, 2, 3, 5, and 9; the common-mediator SMAD (co-SMAD), SMAD4; and the antagonistic or inhibitory SMADs (I-SMADs), SMAD6 and 7 (1-5). Activated type I receptors associate with specific R-SMADs and phosphorylate them on a conserved carboxy-terminal SSXS motif. The phosphorylated R-SMADs dissociate from the receptor and form a heteromeric complex with SMAD4, initiating translocation of the heteromeric SMAD complex to the nucleus. Once in the nucleus, SMADs recruit a variety of DNA binding proteins that function to regulate transcriptional activity (6-8).				
		TGF-β and BMP signal	ing by interfering v	', were originally identifi vith the phosphorylatior β, and BMP in some cel	of other Smad fam	nily members (9,10).
Background References		2. Attisano, L. and Wra 3. Derynck, R. et al. (194. Massagué, J. (1998) 5. Whitman, M. (1998) 6. Wrana, J.L. (2000) So 7. Attisano, L. and Wra 8. Moustakas, A. et al. 9. Topper, J.N. et al. (1910) Imamura, T. et al. 11. Takase, M. et al. (1911)	et al. (1997) <i>Nature</i> 390, 465-71. and Wrana, J.L. (1998) <i>Curr Opin Cell Biol</i> 10, 188-94. et al. (1998) <i>Cell</i> 95, 737-40. J. (1998) <i>Annu Rev Biochem</i> 67, 753-91. <i>I</i> . (1998) <i>Genes Dev</i> 12, 2445-62. (2000) <i>Sci STKE</i> 2000, re1. and Wrana, J.L. (2002) <i>Science</i> 296, 1646-7. A. et al. (2001) <i>J Cell Sci</i> 114, 4359-69. et al. (1997) <i>Proc. Natl. Acad. Sci. USA</i> 94, 9314-9319. T. et al. (1997) <i>Nature</i> 389, 622-626. et al. (1998) <i>Biochem. Biophys. Res. Commun.</i> 244, 26-29. M. et al. (1998) <i>Biochem. Biophys. Res. Commun.</i> 249, 505-511.			
Species Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approv	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

Cross-Reactivity Key H: Human Mk: Monkey

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