

SMAD2/3 (D7G7) XP[®] Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P84022, #Q15796	Entrez-Gene Id: 4088, 4087
Product Usage Information		Application Flow Cytometry (Fixed/Pe	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), antibodies. Protect from l		azide and 2 mg/ml BSA.	Store at 4°C. Do not aliquot the
Specificity/Sensitivity		SMAD2/3 (D7G7) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total SMAD2/3 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His198 of human SMAD2/3 protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated SMAD2/3 (D7G7) XP® Rabbit mAb #8685.			
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).			
Background References		1. Heldin, C.H. et al. (1997) <i>Nature</i> 390, 465-71. 2. Attisano, L. and Wrana, J.L. (1998) <i>Curr Opin Cell Biol</i> 10, 188-94. 3. Derynck, R. et al. (1998) <i>Cell</i> 95, 737-40. 4. Massagué, J. (1998) <i>Annu Rev Biochem</i> 67, 753-91. 5. Whitman, M. (1998) <i>Genes Dev</i> 12, 2445-62. 6. Wrana, J.L. (2000) <i>Sci STKE</i> 2000, re1. 7. Attisano, L. and Wrana, J.L. (2002) <i>Science</i> 296, 1646-7. 8. Moustakas, A. et al. (2001) <i>J Cell Sci</i> 114, 4359-69.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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