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Phospho-Smad3 (Ser423/425) (D12E11) Rabbit mAb



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Applications: W, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit IgG	UniProt ID: #P84022	Entrez-Gene Id: 4088	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed		istry)		Dilution 1:1000 1:50 1:250 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sen	ificity/Sensitivity Phospho-Smad3 (Ser423/425) (D12E11) Rabbit mAb recognizes endogenous levels of Smad3 protein when phosphorylated at Ser422 only, at both Ser423 and Ser425, or at Ser422, Ser423, and Ser425. antibody also weakly recognizes the equivalent phospho-residues of Smad2 protein (Ser464, Ser465 and Ser467).						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser422/423/425 of human Smad3 protein.					
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 Ro	eferences	1. Heldin, C.H. et al. (1 2. Attisano, L. and Wra 3. Derynck, R. et al. (19 4. Massagué, J. (1998) 5. Whitman, M. (1998) 6. Wrana, J.L. (2000) <i>S</i> 7. Attisano, L. and Wra 8. Moustakas, A. et al.	ana, J.L. (1998) <i>Curr</i> 998) <i>Cell</i> 95, 737-40. <i>Annu Rev Biochem Genes Dev</i> 12, 244. <i>ci STKE</i> 2000, re1. ana, J.L. (2002) <i>Scier</i>	<i>Opin Cell Biol</i> 10, 188-94 67, 753-91. 5-62. ace 296, 1646-7.	ι.		
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey					
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