Phospho-Smad2 (Ser465/467) Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #Q15796	Entrez-Gene Id: 4087	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM soo 20°C. Do not aliquot th		ö), 150 mM NaCl, 100 μg/	/ml BSA and 50% gl	ycerol. Store at –	
Specificity/Sensitivity		Phospho-Smad2 (Ser465/467) Antibody detects endogenous levels of Smad2 only when dually phosphorylated at Ser465 and Ser467, and may detect phosphorylated Smad3 at its equivalent site. This antibody does not cross-react with other Smad-related proteins.					
Species predict based on 100% homology		Chicken, Xenopus, Zeb	prafish				
Source / Purific	cation		dues surrounding S	munizing animals with a er465/467 of human Sm raphy.			
Background		pathway that transmit SMADs have been def 9; the common-media SMADs), SMAD6 and 7 phosphorylate them o dissociate from the re the heteromeric SMAE binding proteins that the Following stimulation	TGF-β signals from ined: the receptor- tor SMAD (co-SMAI (1-5). Activated typ n a conserved carb ceptor and form a complex to the nu function to regulate by TGF-beta, Smad	ansduction molecules ar the cell surface into the regulated SMADs (R-SMA D), SMAD4; and the anta be I receptors associate we oxy-terminal SSXS motifineteromeric complex with recleus. Once in the nucle transcriptional activity 2 and Smad3 become pl 67 on Smad2; serines 42	e nucleus. Three dis ADS), which include gonistic or inhibitor with specific R-SMAI The phosphorylate th SMAD4, initiating tus, SMAD5 recruit a (6-8).	tinct classes of SMAD1, 2, 3, 5, and y SMADs (I- Ds and ed R-SMADs I translocation of a variety of DNA eir carboxyl termini	
		11). Following phosph	orylation, Smad2 a 4. These complexes	nd Smad2, serifies 42 nd Smad3 form a hetero are translocated to the	meric complex with	n the co-smad	
Background Re	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>Sc</i> 7. Attisano, L. and Wra 8. Moustakas, A. et al. 9. Abdollah, S. et al. (1 10. Souchelnytskyi, S. 11. Liu, X. et al. (1997)	na, J.L. (1998) <i>Curr</i> 998) <i>Cell</i> 95, 737-40 <i>Annu Rev Biochem</i> <i>Genes Dev</i> 12, 244 <i>:i STKE</i> 2000, re1. ina, J.L. (2002) <i>Scier</i> (2001) <i>J Cell Sci</i> 114 997) <i>J Biol Chem</i> 27 et al. (1997) <i>J Biol C</i>	<i>Opin Cell Biol</i> 10, 188-94 67, 753-91. 5-62. <i>nce</i> 296, 1646-7. 4, 4359-69. 2, 27678-85. <i>hem</i> 272, 28107-15.	1.		
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		ר 5% w/v nonfat	
Applications K	ey	W: Western Blotting					

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