SMAD 1/5/9 Antibody Sampler Kit 1 Kit (6 x 20 microliters)



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

Product Includes		Product # Quantity Mol. Wt Isotype/Source			
Phospho-SMAD1 (Ser463/465)/ SMAD5 (Ser463/465)/ SMAD9 (Ser465/467) (D5B10) Rabbit mAb	13820	20 µl	60 kDa	Rabbit IgG	
Phospho-SMAD1/5 (Ser463/465) (41D10) Rabbit mAb	9516	20 µl	60 kDa	Rabbit	
Phospho-SMAD1 (Ser206) (D40B7) Rabbit mAb	5753	20 µl	60 kDa	Rabbit IgG	
SMAD1 (D59D7) XP [®] Rabbit mAb	6944	20 µl	60 kDa	Rabbit IgG	
SMAD4 (D3M6U) Rabbit mAb	38454	20 µl	70 kDa	Rabbit IgG	
SMAD5 (D4G2) Rabbit mAb	12534	20 µl	60 kDa	Rabbit IgG	
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat	

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The SMAD1/5/9 Antibody Sampler Kit provides an economical means of detecting target proteins of the BMP signaling pathway. The kit includes enough antibody to perform two western blots with each primary antibody.
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.
Background	Transforming growth factor- β (TGF- β) superfamily signaling plays a critical role in the regulation of cell growth, differentiation, and development in a wide range of biological systems. In general, signaling is initiated with ligand-induced oligomerization of serine/ threonine receptor kinases and phosphorylation of the cytoplasmic signaling molecules Smad2 and Smad3 for the TGF- β /activin pathway, or Smad1/5/9 for the bone morphogenetic protein (BMP) pathway. Carboxy-terminal phosphorylation of Smads by activated receptors results in their partnering with the common signaling transducer Smad4, and translocation to the nucleus. Activated Smads regulate diverse biological effects by partnering with transcription factors resulting in cell-state specific modulation of transcription (1-7).
Background References	1. Horbelt, D. et al. (2012) <i>Int J Biochem Cell Biol</i> 44, 469-74. 2. Ikushima, H. and Miyazono, K. (2010) <i>Nat Rev Cancer</i> 10, 415-24. 3. Kitisin, K. et al. (2007) <i>Sci STKE</i> 2007, cm1. 4. Schmierer, B. and Hill, C.S. (2007) <i>Nat Rev Mol Cell Biol</i> 8, 970-82. 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.
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