



SMAD2 Polyclonal Antibody

E90440

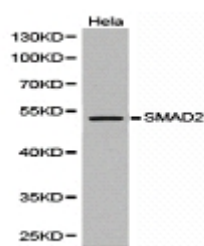
- Catalog Number:** E90440
- Amount:** 100ul
- Background:** Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF- β signals from the cell surface into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (R-Smads), which include Smad1, 2, 3, 5, and 8; 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-Smad dissociates from the receptor and forms a heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses (6-8).
- Species:** Rabbit
- Isotype:** IgG
- Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- Synonyms:** SMAD2;V18;JV18-1;MADH2;MADR2;MGC22139;MGC34440;hMAD-2;hSMAD2 ;
- Immunogen:** Recombinant protein of human SMAD2
- Purification:** Affinity purification
- Reactivity:** H M R
- Applications:** WB IHC IF
- Molecular Weight:** 52kDa
- Swiss-Prot No. :** Q15796
- Gene ID:** 4087
- References:** 1. Heldin, C.H. et al. (1997) Nature 390, 465-471. 2. Attisano, L. and Wrana, J.L. (1998) Curr. Opin. Cell Biol. 10, 188-194. 3. Derynck, R. et al. (1998) Cell 95, 737-740. 4. Massague, J. (1998) Annu. Rev. Biochem. 67, 753-791. 5. Whitman, M. (1998) Genes Dev. 12, 2445-2462. 6. Wu, G. et al. (2000) Science 287, 92-97. 7. Attisano, L. and Wrana, J.L. (2002) Science 296, 1646-1647. 8. Moustakas, A. et al. (2001) J. Cell Sci. 114, 4359-4369.

For Research Use Only

WB 1:500 - 1:1000

IHC 1:50- 1:100

IF 1:20- 1:50



Western blot analysis of extracts of HeLa cellline, using SMAD2 antibody.