

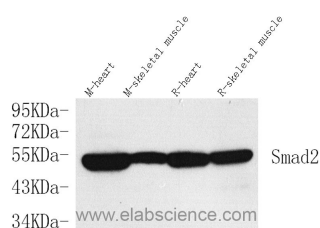
SMAD2 Polyclonal Antibody

Catalog No. E-AB-70072
Storage Store at -20°C. Avoid freeze / thaw cycles.
Applications WB

Reactivity M,R
Host Rabbit
Isotype IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Western Blot analysis of various samples using SMAD2 Polyclonal Antibody at dilution of 1:750.

Immunogen Information

Immunogen KLH conjugated Synthetic peptide corresponding to Mouse Smad2
Swissprot Q62432,O70436
Synonyms JV18, JV18-1, MADH2, MADR2, hMAD-2, hSMAD family member 2

Product Information

Calculated MW 55kDa
Observed MW 55kDa
Buffer PBS with 0.02% sodium azide, 1% protective protein and 50% glycerol, pH7.4
Purify Affinity purification
Dilution WB 1:500-1:2000

Background

The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants have been observed for this gene.

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Applications: WB-Western Blot IHC-Immunohistochemistry IF-Immunofluorescence IP-Immunoprecipitation FC-Flow cytometry ChIP-Chromatin Immunoprecipitation Reactivity: H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig Z-Zebrafish X-Xenopus C-Cow.