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# Smad2 Mouse mAb

Catalog No.: A0441



### **Basic Information**

## **Observed MW**

50kDa

#### **Calculated MW**

52kDa

#### Category

SMab Recombinant Monoclonal Antibody

### **Applications**

WB, IF/ICC, ELISA

### **Cross-Reactivity**

Human

## **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.

## **Recommended Dilutions**

**WB** 1:500 - 1:2000

IF/ICC 1:50 - 1:200

## **Immunogen Information**

**Gene ID Swiss Prot** 4087 015796

#### **Immunogen**

Recombinant protein of human Smad2

#### Synonyms

JV18; LDS6; CHTD8; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2; Smad2

### **Contact**

www.abclonal.com

### **Product Information**

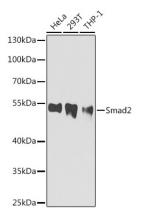
SourceIsotypePurificationMouseIgGAffinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

# **Validation Data**



Western blot analysis of various lysates using Smad2 Mouse mAb (A0441) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90s.