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# Smad2 Rabbit pAb

Catalog No.: A0440 3 Publications



### **Basic Information**

# **Observed MW**

50kDa

### **Calculated MW**

52kDa

#### Category

Polyclonal Antibody

#### **Applications**

WB,IHC-P,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 - 1:1000

IHC-P 1:50 - 1:200

# **Immunogen Information**

**Gene ID Swiss Prot** 4087 015796

#### **Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 175-270 of human Smad2 (NP 005892.1).

### **Synonyms**

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

### **Contact**

www.abclonal.com

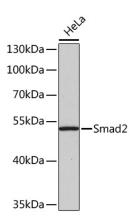
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

### Storage

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

Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

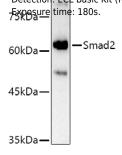


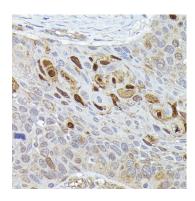
Western blot analysis of lysates from HeLa cells, using Smad2 Rabbit pAb (A0440). Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Western blot analysis of lysates from HT-1080 cells, using Smad2 Rabbit pAb (A0440) at 1:1000 dilution. Secondary analysis of HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

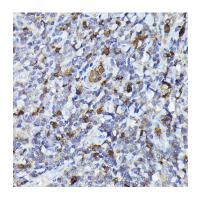
Lysates/proteins: 25µg per lane.

1000 puffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020).





Immunohistochemistry analysis of Smad2 in paraffin-embedded human esophageal cancer using Smad2 Rabbit pAb (A0440) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Smad2 in paraffin-embedded human tonsil using Smad2 Rabbit pAb (A0440) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.