# SMAD2/SMAD3 Rabbit pAb

Catalog No.: A24037



## **Basic Information**

#### **Observed MW**

95kDa

### **Calculated MW**

48kDa/52kDa/25kDa/35kDa/43kDa

## Category

Primary antibody

## **Applications**

WB,IF/ICC,ChIP

#### **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 functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis.

# **Recommended Dilutions**

**WB** 1:500 - 1:1000

**IF/ICC** 1:50 - 1:200

**ChIP** 5μg antibody for 10μg-15μg of Chromatin

# **Immunogen Information**

 Gene ID
 Swiss Prot

 4087/4088
 Q15796/P84022

#### **Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

# **Synonyms**

HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3; SMAD2/SMAD3

## **Contact**

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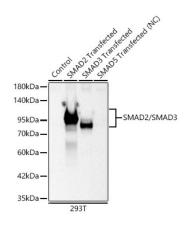
## **Product Information**

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

#### Storage

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

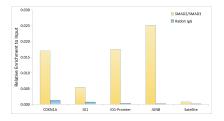


Western blot analysis of lysates from wild type (WT) and 293T cells transfected with SMAD2/SMAD3 using SMAD2/SMAD3 Rabbit pAb (A24037) at 1:1000 dilution incubated overnight at  $4^{\circ}$ C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

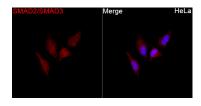
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). NC:293T cells transfected with SMAD5

Exposure time: 10s.



Chromatin immunoprecipitation was performed with 15  $\mu$ g of cross-linked chromatin from A549 cells treated by TGF- $\beta$  (2ng/ml, 4-6h), using 5  $\mu$ g of SMAD2/SMAD3 (A24037) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Immunofluorescence analysis of HeLa cells using SMAD2/SMAD3 Rabbit pAb (A24037) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.