

# [KO Validated] Smad1 Rabbit mAb

Catalog No.: A22326 **KO Validated** **Recombinant**

## Basic Information

### Observed MW

60kDa

### Calculated MW

52kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IP

### Cross-Reactivity

Human, Mouse

### CloneNo number

ARC52106

## 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 signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed.

## Recommended Dilutions

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

**IHC-P** 1:50 - 1:200

**IP** 0.5µg-4µg antibody for  
400µg-600µg extracts of  
whole cells

## Immunogen Information

### Gene ID

4086

### Swiss Prot

Q15797

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 20-240 of human Smad1 (NP\_005891.1).

### Synonyms

BSP1; JV41; BSP-1; JV4-1; MADH1; MADR1; d1

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

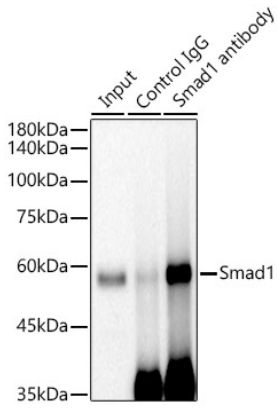
Affinity purification

### Storage

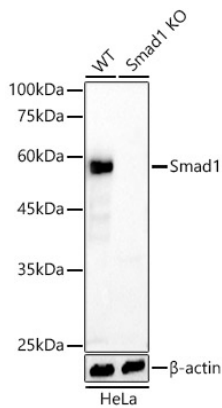
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

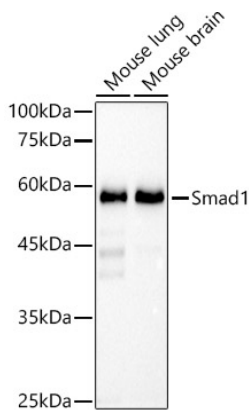
## Validation Data



Immunoprecipitation analysis of 600 µg extracts of Mouse lung using 3 µg Smad1 antibody (A22326). Western blot was performed from the immunoprecipitate using Smad1 antibody (A22326) at a dilution of 1:1000.



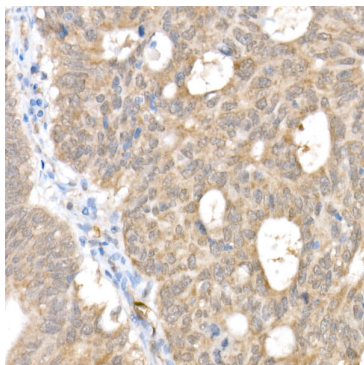
Western blot analysis of lysates from wild type(WT) and Smad1 knockout (KO) HeLa cells, using [KO Validated] Smad1 Rabbit mAb (A22326) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



Western blot analysis of various lysates using [KO Validated] Smad1 Rabbit mAb (A22326) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) 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.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using [KO Validated] Smad1 Rabbit mAb (A22326) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.