

[KO Validated] Smad1 Rabbit mAb

Catalog No.: A19113 **KO Validated** **Recombinant** **2 Publications**

Basic Information

Observed MW

60kDa/

Calculated MW

52kDa

Category

Primary antibody

Applications

WB,IHC-P,IP,ELISA

Cross-Reactivity

Human, Mouse

CloneNo number

ARC52105

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 1:1000 - 1:2000

IHC-P 1:100 - 1:500

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Contact

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Immunogen Information

Gene ID

4086

Swiss Prot

Q15797

Immunogen

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

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

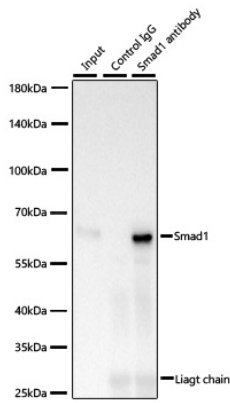
Affinity purification

Storage

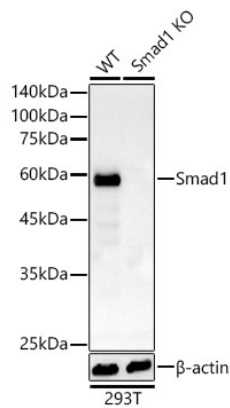
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

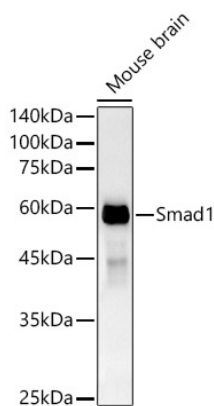
Validation Data



Immunoprecipitation of Smad1 from 400 µg extracts of HeLa cells was performed using 2 µg of [KO Validated] Smad1 Rabbit mAb (A19113). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] Smad1 Rabbit mAb (A19113) at a dilution of 1:500.

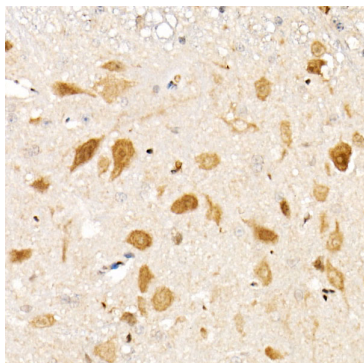


Western blot analysis of lysates from wild type (WT) and Smad1 Rabbit mAb knockout (KO) HeLa (KO) cells, using Smad1 Rabbit mAb (A19113) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



Western blot analysis of lysates from Mouse brain, using Smad1 Rabbit mAb (A19113) 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.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse spinal cord using [KO Validated] Smad1 Rabbit mAb (A19113) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.