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[KO Validated] Smad1 Rabbit mAb

Catalog No.: A19113 KO Validated Recombinant 1 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.

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℃. 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.

Contact

400-999-6126

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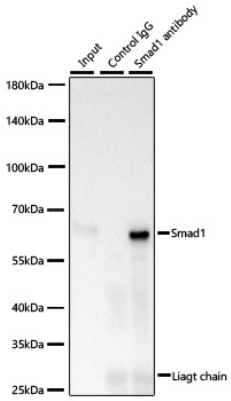
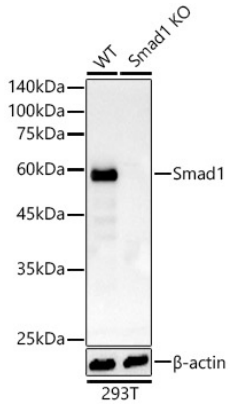
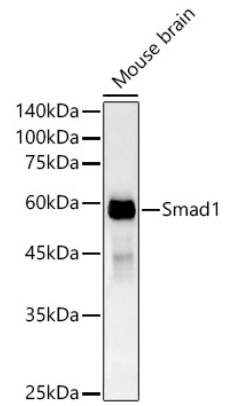
Validation Data



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.

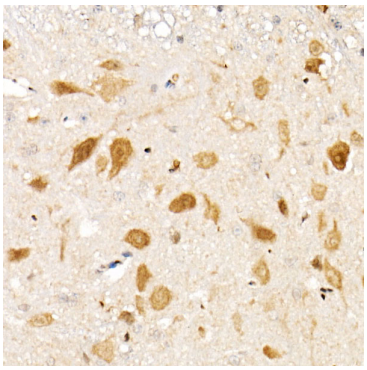


Western blot analysis of lysates from wild type(WT) and Smad1 Rabbit mAb knockout (KO) HeLa(KO) cells, using Smad1 Rabbit mAb (A19113) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat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