

A23491

Leader in Biomolecular Solutions for Life Science



[KO Validated] Smad3 Rabbit mAb

Catalog No.: A23491

KO Validated

Recombinant

Basic Information

Observed MW

52kDa

Calculated MW

48kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

WB,IHC-P,IP,ELISA

Cross-Reactivity

Human

CloneNo number

ARC0490

Background

The SMAD family of proteins are a group of intracellular signal transducer proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. The SMAD3 protein functions in the transforming growth factor-beta signaling pathway, and transmits signals from the cell surface to the nucleus, regulating gene activity and cell proliferation. This protein forms a complex with other SMAD proteins and binds DNA, functioning both as a transcription factor and tumor suppressor. Mutations in this gene are associated with aneurysms-osteoarthritis syndrome and Loeys-Dietz Syndrome 3.

Recommended Dilutions

WB 1:1000 - 1:4000

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

IHC-P 1:50 - 1:200

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

Immunogen Information

Gene ID

4088

Swiss Prot

P84022

Immunogen

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

Synonyms

LDS3; mad3; LDS1C; MADH3; JV15-2; hMAD-3; hSMAD3; HSPC193; HsT17436; d3

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

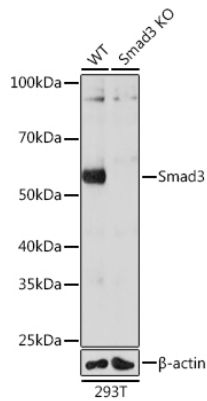
Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact



www.abclonal.com

Validation Data



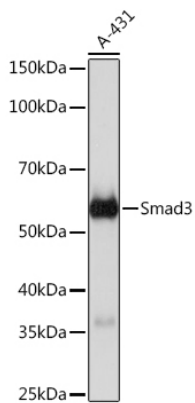
Western blot analysis of lysates from wild type (WT) and Smad3 knockout (KO) 293T cells, using [KO Validated] Smad3 Rabbit mAb (A23491) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.



Western blot analysis of lysates from A-431 cells, using [KO Validated] Smad3 Rabbit mAb (A23491) at 1:1000 dilution.

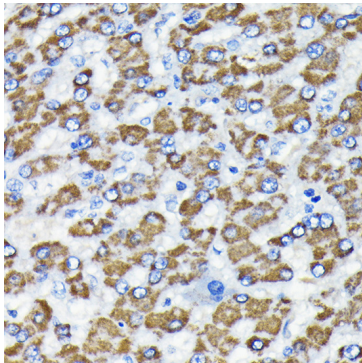
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

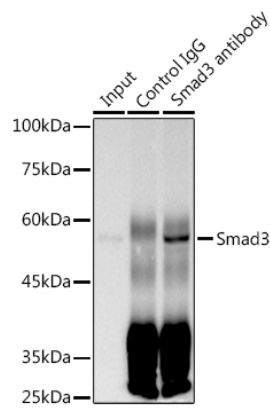
Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Human liver using [KO Validated] Smad3 Rabbit mAb (A23491) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

Validation Data



Immunoprecipitation analysis of 300 µg extracts of A-431 cells using 3 µg Smad3 antibody (A23491). Western blot was performed from the immunoprecipitate using Smad3 antibody (A23491) at a dilution of 1:500.