

# [KO Validated] Smad3 Rabbit mAb

Catalog No.: A19115   **KO Validated**   **Recombinant**   **44 Publications**

## Basic Information

### Observed MW

52kDa

### Calculated MW

48kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IP, ChIP, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### Clone/No. number

ARC53861

## 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**                    1:10000 - 1:60000

**IHC-P**                1:200 - 1:2000

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

**ChIP**                3µg antibody for 15µg-25µg of Chromatin

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

## Contact

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

## Immunogen Information

### Gene ID

4088

### Swiss Prot

P84022

### Immunogen

Synthetic peptide. 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

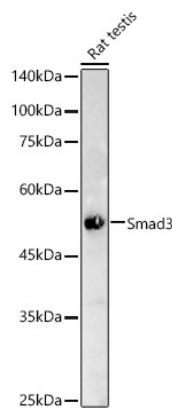
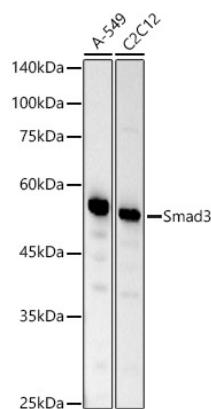
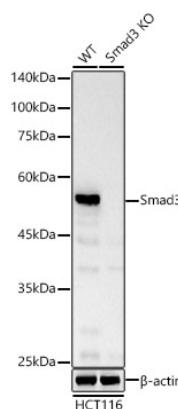
### Storage

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

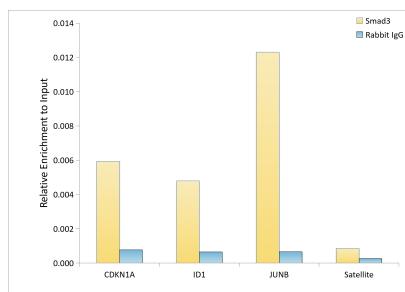
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



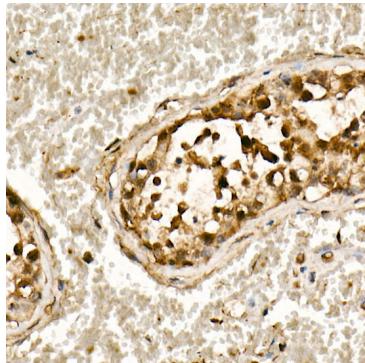
## Validation Data



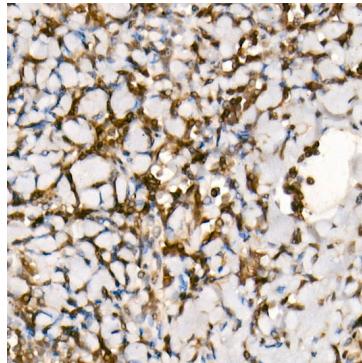
## Validation Data



Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from HeLa, using 3 µg of [KO Validated] Smad3 Rabbit mAb (A19115) 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.



Immunohistochemistry analysis of paraffin-embedded Human testis using [KO Validated] Smad3 Rabbit mAb (A19115) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using [KO Validated] Smad3 Rabbit mAb (A19115) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.