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[KO Validated] Smad3 Rabbit mAb

Catalog No.: A19115 KO Validated Recombinant 50 Publications

Basic Information

Observed MW
52kDa

Calculated MW
48kDa

Category
Primary antibody

Applications
WB,IHC-P,IP,ChIP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo 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.

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℃

Contact

400-999-6126

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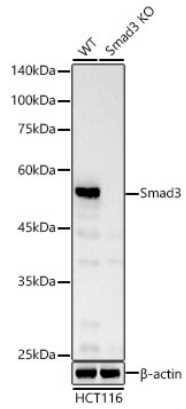
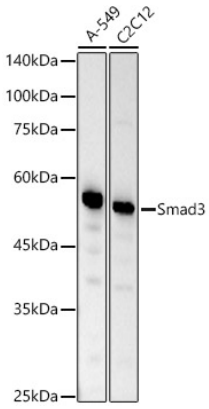
www.abclonal.com.cn

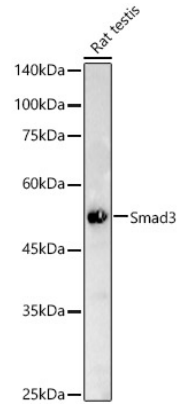
Validation Data



Western blot analysis of lysates from wild type(WT) and Smad3 Rabbit mAb knockout (KO) HCT116(KO) cells, using Smad3 Rabbit mAb (A19115) at 1:20000 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: 30s.



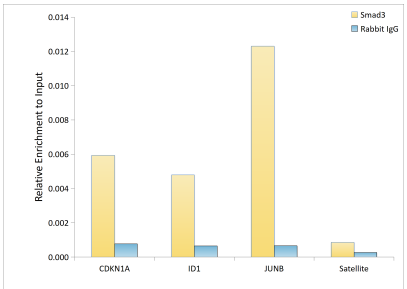
Western blot analysis of various lysates, using Smad3 Rabbit mAb (A19115) at 1:20000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



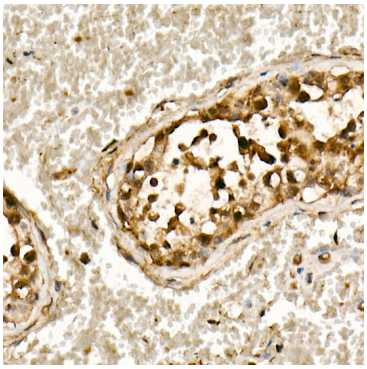
Western blot analysis of lysates from Rat testis, using Smad3 Rabbit mAb (A19115) at 1:20000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

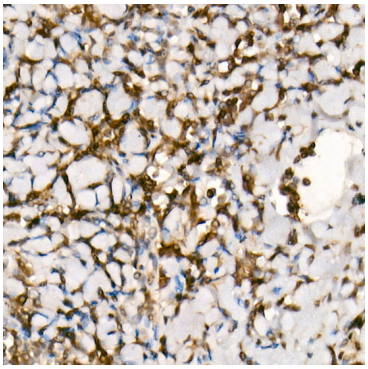
Validation Data



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.