SMAD2/SMAD3 Rabbit mAb

CAB28421

Description

This SMAD2/SMAD3 Rabbit mAb is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

For research use only. Not for therapeutic or diagnostic purposes.

Product Information

SKU:	CAB28421
Contents:	SMAD2/SMAD3 Rabbit mAb: 1 vial (20µL / 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibodies (Recombinant)
Synonyms:	CHTD8; JV18; JV18-1; LDS6; MADH2; MADR2; hMAD-2; hSMAD2; HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3; hMAD-3; hSMAD3; mad3
Clone:	ARC77767
Applications:	WB, IP, ChIP, ELISA
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated

Antibody Data

Gene ID:	4087/4088
Uniprot:	Q15796/P84022

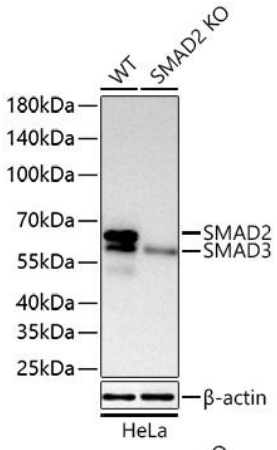
Manufacturers Statement: This final kit system is assembled and quality-released by Assay Genie Limited.

Immunogen:	Synthetic peptide. This information is considered to be commercially sensitive.
Host Species:	Rabbit
Isotype:	IgG
Purification:	Affinity purification
Observed MW:	52 kDa/60 kDa
Calculated MW:	25-52 kDa

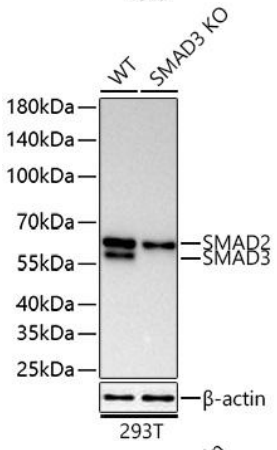
Preparation & Storage

Storage:	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH 7.3. Store Bradford Reagent at Room Temperature for 1 Year.
Recommended Dilutions:	WB: 1:6000 - 1:15000 IP: 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells ChIP: 2µg antibody for 10µg-15µg of Chromatin ELISA: Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.
Protein Quantification (Optional):	To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

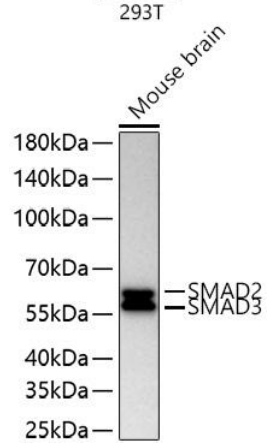
Validation Data



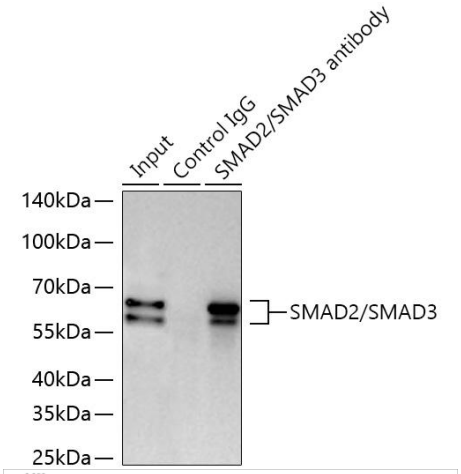
Western blot analysis of lysates from wild type (WT) and SMAD2/SMAD3 knockout (KO) HeLa cells using [KO Validated] SMAD2/SMAD3 Rabbit mAb (CAB28421) at 1:15000 dilution incubated overnight at 4 °C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit.
Exposure time: 45 s.



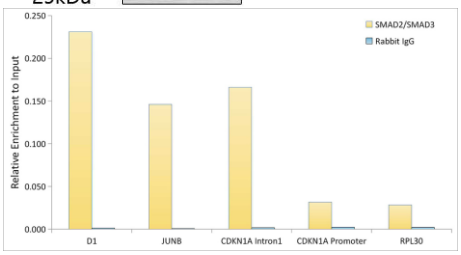
Western blot analysis of lysates from wild type (WT) and SMAD2/SMAD3 knockout (KO) 293T cells using [KO Validated] SMAD2/SMAD3 Rabbit mAb (CAB28421) at 1:15000 dilution incubated overnight at 4 °C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit.
Exposure time: 45 s.



Western blot analysis of lysates from Mouse brain using [KO Validated] SMAD2/SMAD3 Rabbit mAb (CAB28421) at 1:15000 dilution incubated overnight at 4 °C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit.
Exposure time: 45 s.



Immunoprecipitation of SMAD2/SMAD3 from 300 µg extracts of NIH/3T3 cells was performed using 0.5 µg of [KO Validated] SMAD2/SMAD3 Rabbit mAb (CAB28421). Rabbit Control IgG 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] SMAD2/SMAD3 Rabbit mAb (CAB28421) at a dilution of 1:6000.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from A549 cells treated with TGF-β1 (20 ng/mL, 30 min), using 2 µg of [KO Validated] SMAD2/SMAD3 Rabbit mAb (CAB28421) and Rabbit IgG isotype control. 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.

Manufacturers Statement

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