

[KO Validated] Smad2 Monoclonal Antibody

CAB19114

Description

This [KO Validated] Smad2 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB19114
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	JV18, LDS6, CHTD8, MADH2, MADR2, JV18-1, hMAD-2, hSMAD2, [KD Validated] Smad2
Clone:	ARC0343
Applications:	WB IF/ICC IP ELISA
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	4087
Uniprot:	AB_2862607
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	60kDa
Calculated MW:	52kDa

Preparation & Storage

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.

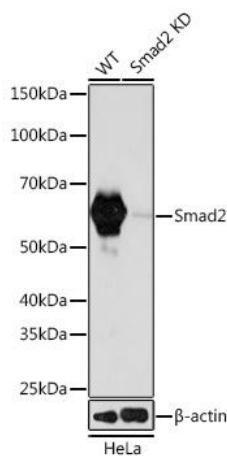
Store Bradford Reagent at Room Temperature for 1 Year.

Positive Sample: HeLa, HT-29, Jurkat, NIH/3T3, Rat lung, PC-12

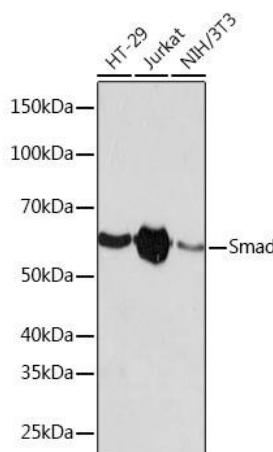
Recommended Dilutions:	WB	1:1000 - 1:2000
	IF/ICC	1:100 - 1:400
	IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
	ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

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

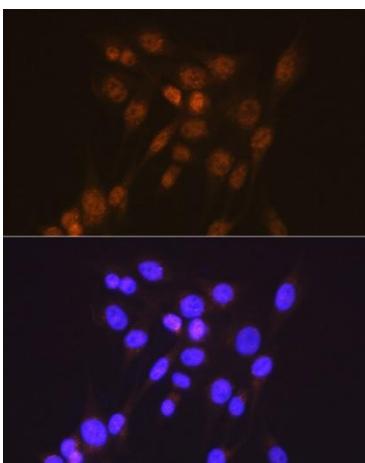
Validation Data



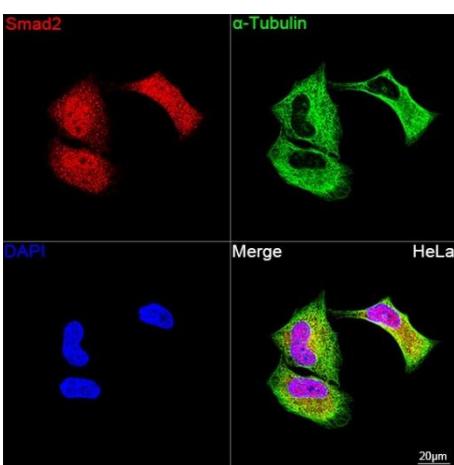
Western blot analysis of lysates from wild type (WT) and Smad2 knockdown (KD) HeLa cells using [KD Validated] Smad2 Rabbit mAb (CAB19114) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 60s.



Western blot analysis of various lysates using [KD Validated] Smad2 Rabbit mAb (CAB19114) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 90s.



Immunofluorescence analysis of NIH/3T3 cells using [KD Validated] Smad2 Rabbit mAb (CAB19114) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat anti-Rabbit IgG (H+L) (CABS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Confocal imaging of HeLa cells using [KD Validated] Smad2 Rabbit mAb (CAB19114, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.