

Product Datasheet

Smad2 Recombinant Rabbit Monoclonal Antibody (orb544569)

Catalog Number	orb544569
Category	Antibodies
Description	Smad2 Recombinant Rabbit Monoclonal Antibody
Target	SMAD2
Clonality	Recombinant
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Mouse, Rat
Predicted Reactivity	Mouse, Rat
Form/Appearance	Liquid
Concentration	1mg/ml
Buffer/Preservatives	0.01M TBS (pH7.4) with 1% rAlbumin, 0.02% Proclin300 and 50% Glycerol.
Purification	Affinity purified by Protein A
Immunogen	A synthesized peptide derived from human SMAD2 (230-270aa)
UniProt ID	Q15796
MW	52 kDa
Tested applications	FC, ICC, IF, IHC-Fr, IHC-P, WB

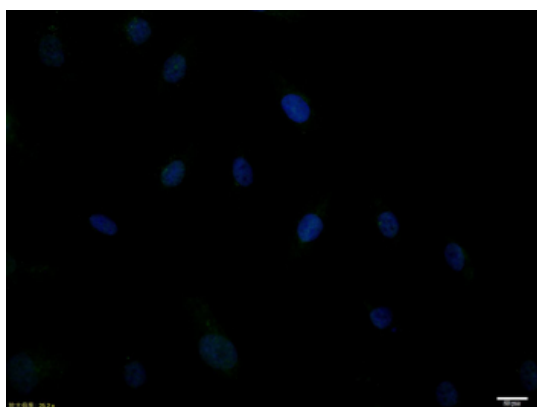
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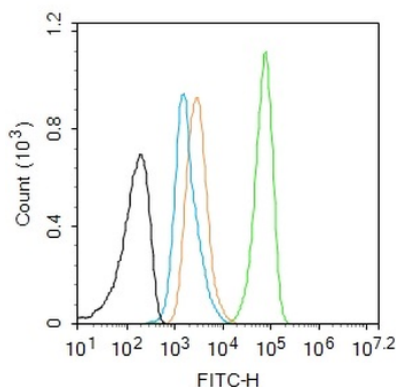
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Dilution range	WB=1:500-2000, IHC-P=1:50-200, IHC-F=1:50-200, ICC/IF=1:50-200, IF=1:50-200, Flow-Cyt=1ug/Test
Antibody Type	Primary Antibody
Clone Number	9A3
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only



A549 cell, 4% Paraformaldehyde-fixed, Triton X-100 at room temperature for 20 min, Blocking buffer (normal goat serum) at 37°C for 20 min, Antibody incubation with (Smad2) monoclonal Antibody, Unconjugated (orb544569) 1:100, 90 minutes at 37°C, followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.



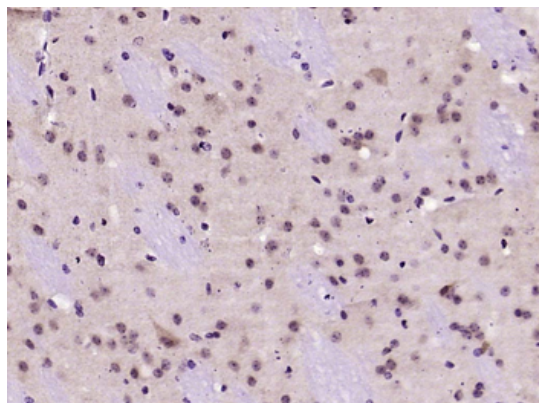
Blank control: A431. Primary Antibody (green line): Rabbit Anti-Smad2 antibody (orb544569), dilution: 1 µg/10⁶ cells, Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF488, dilution: 1 µg/Test. Protocol, The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20000 events was performed.

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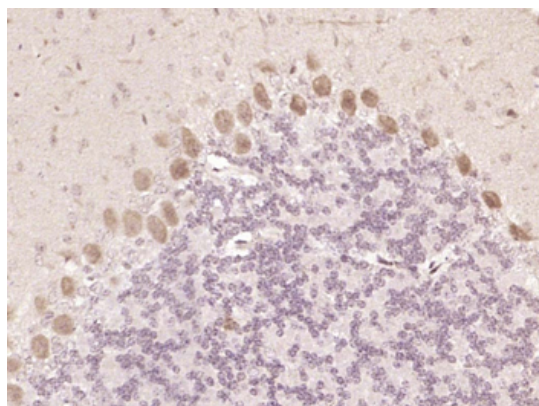
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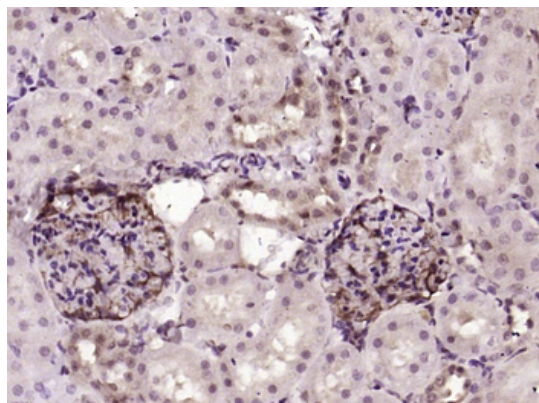
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Paraformaldehyde-fixed, paraffin embedded (mouse brain), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (Smad2) Polyclonal Antibody, Unconjugated (orb544569) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (Smad2) Polyclonal Antibody, Unconjugated (orb544569) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



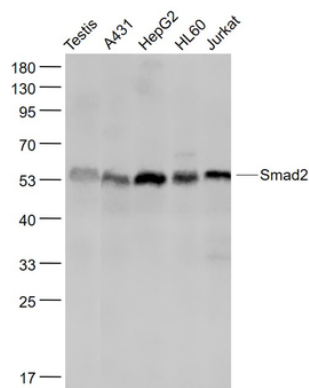
Paraformaldehyde-fixed, paraffin embedded (rat kidney), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (Smad2) Polyclonal Antibody, Unconjugated (orb544569) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

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Sample: Testis (Mouse) Lysate at 40 ug, A431 (Human) Cell Lysate at 30 ug, HepG2 (Human) Cell Lysate at 30 ug, HL60 (Human) Cell Lysate at 30 ug, Jurkat (Human) Cell Lysate at 30 ug, Primary: Anti-Smad2 (orb544569) at 1/1000 dilution, Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution, Predicted band size: 52 kD, Observed band size: 53 kD.

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