

SMAD4 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 322 and 552 of SMAD4 (Uniprot ID#Q13485)
Form	Liquid
Concentration	0.58 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2552158

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

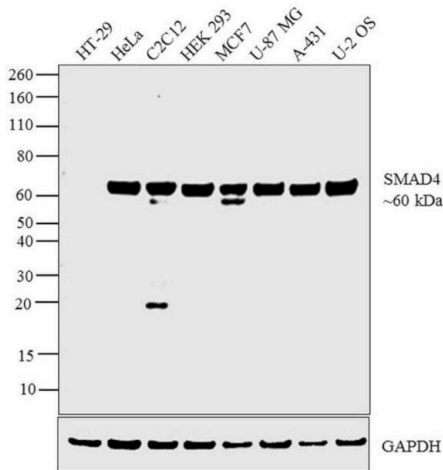
Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, Neuro 2A, C8D30, NIH-3T3, Raw264.7, C2C12, PC-12, Rat2, DDDDK-tagged SMAD4-transfected 293T.

Predicted reactivity: Mouse (100%), Rat (100%), Pig (100%), Sheep (100%), Rhesus Monkey (100%), Bovine (100%).

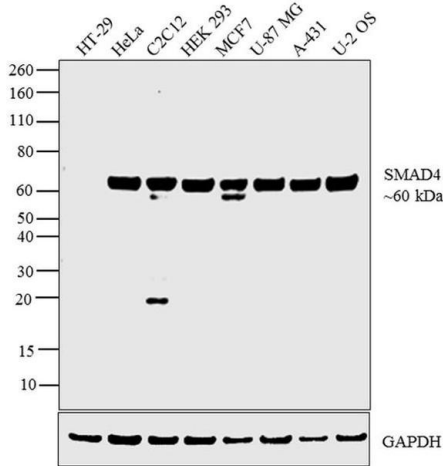
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For SMAD4 Polyclonal Antibody



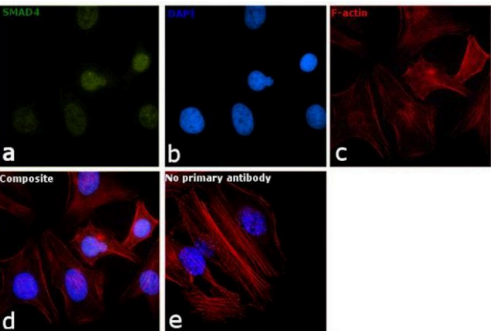
SMAD4 Antibody (PA5-34806)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of SMAD4 was observed in HT-29 (documented to be a SMAD4 null cell line) when compared to other cell lines tested using product (Product # PA5-34806) in western blot. {RE}



SMAD4 Antibody (PA5-34806) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HT-29 (Lane 1), HeLa (Lane 2), C2C12 (Lane 3), HEK 293 (Lane 4), MCF7 (Lane 5), U-87 MG (Lane 6), A-431 (Lane 7) and U-2 OS (Lane 8). The blot was probed with Anti-SMAD4 Polyclonal Antibody (Product # PA5-34806, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 60 kDa band corresponding to SMAD4 was observed across the cell lines tested.



SMAD4 Antibody (PA5-34806) in ICC/IF

Immunofluorescence analysis of SMAD4 was performed using 70 % confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with SMAD4 Polyclonal Antibody (PA5-34806) at 5 µg/mL in 0.1% BSA and incubated overnight at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear staining. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

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Immunohistochemistry (3)

<p>Pathology oncology research : POR</p> <p>Profiling Activins and Follistatin in Colorectal Cancer According to Clinical Stage, Tumour Sidedness and Smad4 Status.</p> <p>"Published figure using SMAD4 polyclonal antibody (Product # PA5-34806) in Immunohistochemistry"</p> <p>Authors: Refaat B,Zekri J,Aslam A,Ahmad J,Baghdadi MA,Meliti A,Ildris S,Sultan S,Alardati H,Saimeh HA,Alsaegh A, Alhadrami M,Hamid T,Naeem ME,Elsamany SA</p>	<p>Year 2022</p> <p>Species Human</p>
<p>The EMBO journal</p> <p>Molecular diversity of diencephalic astrocytes reveals adult astrogenesis regulated by Smad4.</p> <p>"Published figure using SMAD4 polyclonal antibody (Product # PA5-34806) in Immunohistochemistry"</p> <p>Authors: Ohlig S,Clavreul S,Thorwirth M,Simon-Ebert T,Bocchi R,Ulbricht S,Kannayian N,Rossner M,Sirko S, Smialowski P,Fischer-Sternjak J,Götz M</p>	<p>Year 2021</p>

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