

SMAD2 Monoclonal Antibody (42)

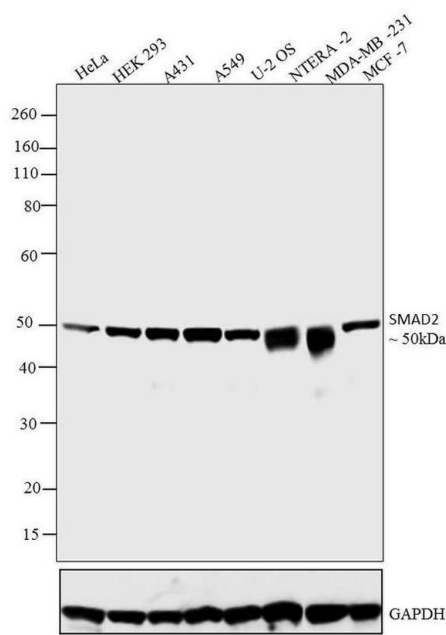
Product Details	
Size	100 µg
Species Reactivity	Bovine, Human, Mouse, Rhesus monkey, Rat
Published Species	Rat, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	42
Conjugate	Unconjugated
Immunogen	Recombinant protein derived from the N-terminal region of human Smad2 protein.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2532216

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Flow Cytometry (Flow)	Assay-dependent	-

Product Images For SMAD2 Monoclonal Antibody (42)

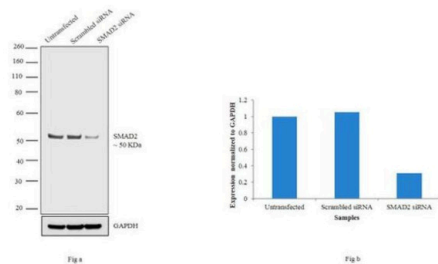
SMAD2 Antibody (436500) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), HEK 293 (Lane 2), A431 (Lane 3), A549 (Lane 4), U-2 OS (Lane 5), NTERA-2 (Lane 6), MDA-MB-231 (Lane 7) and MCF-7 (Lane 8). The blots were probed with Anti-SMAD2 Mouse Monoclonal Antibody (Product # 436500, 1-3 µg/mL) and detected by chemiluminescence Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 50 kDa band corresponding to SMAD2 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE®12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane by iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



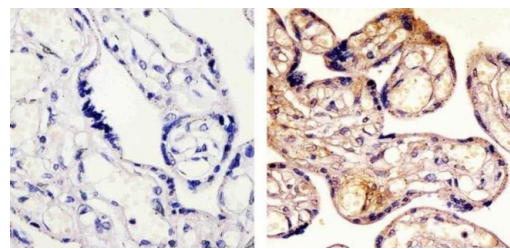
SMAD2 Antibody (436500)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF-7 cells were transfected with SMAD2 siRNA and decrease in signal was observed in Western Blot using Anti-SMAD2 Monoclonal Antibody (42) (Product # 436500). {KD}



SMAD2 Antibody (436500) in IHC (P)

Immunohistochemistry analysis of SMAD2 showing staining in the cytoplasm and nucleus of paraffin-embedded human placenta tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Anti- SMAD2 Monoclonal Antibody (Product # 436500) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (4)

<p>Pharmaceuticals (Basel, Switzerland)</p> <p>Fucoidan-Mediated Inhibition of Fibrotic Properties in Oral Submucous Fibrosis via the MEG3/miR-181a/Egr1 Axis.</p> <p>"436500 was used in Western Blotting to investigate the anti-fibrotic effect of fucoidan on oral fibrosis."</p> <p>Authors: Fang CY,Chen SH,Huang CC,Liao YW,Chao SC,Yu CC</p>	<p>Year 2022</p> <p>Species Human</p>
<p>Oxidative medicine and cellular longevity</p> <p>BGP-15 Protects against Heart Failure by Enhanced Mitochondrial Biogenesis and Decreased Fibrotic Remodelling in Spontaneously Hypertensive Rats.</p> <p>"Published figure using SMAD2 monoclonal antibody (Product # 436500) in Western Blot"</p> <p>Authors: Horvath O,Ordog K,Bruszt K,Deres L,Gallyas F,Sumegi B,Toth K,Halmosi R</p>	<p>Year 2021</p>

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