

Basic Information

Product Name	Anti-SMAD2 Antibody (Clone#OTI2C10)	
Gene Name	SMAD2	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG2b	
Species Reactivity	human, mouse, rat	
Tested Application	WB, FCM, ICC/IF	
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
Immunogen	Full length human recombinant protein of human SMAD2 (NP_005892) produced in HEK293T cell.	
Concentration	500 ug/ml	
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)	
Observed MW	52 kDa	
Dilution Ratios	Western blot (WB): 1:2000 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:100 Flow cytometry (FCM): 1:100	

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

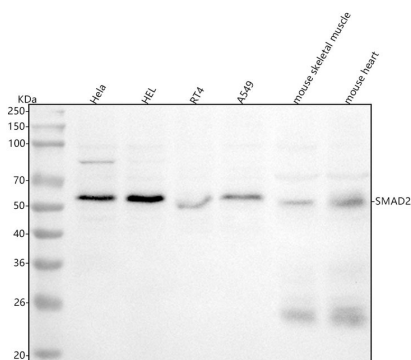
Background Information

Smad2 (Mothers against decapentaplegic homolog 2), also known as MADR2, MADH2, SMAD family member 2 or SMAD2, is a protein that in humans is encoded by the SMAD2 gene. MAD homolog 2 belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. Eppert et al. mapped the MADR2 gene close to DPC4 at 18q21, a region which is frequently deleted in colorectal cancers. Riggins et al. mapped the human MADH2 gene to 18q21. Nakao et al. refined the localization of the SMAD2 gene to 18q21.1, approximately 3 Mb proximal to DPC4, by fluorescence in situ hybridization. SMAD2 mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors.

Reference

Anti-SMAD2 Antibody (Clone#OTI2C10)被引用在1文献中。

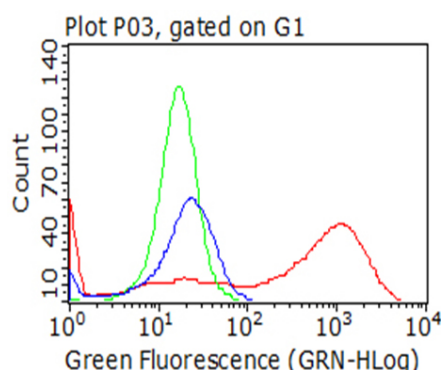
Selected Validation Data



Western blot analysis of anti-SMAD2 antibody (M00090-4). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,
Lane 2: human HEL whole cell lysates,
Lane 3: human RT4 whole cell lysates,
Lane 4: human A549 whole cell lysates,
Lane 5: mouse skeletal muscle lysates,
Lane 6: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-SMAD2 antigen affinity purified monoclonal antibody (M00090-4) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SMAD2 at approximately 52 kDa. The expected band size for SMAD2 is at 52 kDa.



Flow cytometric analysis of living 293T cells transfected with SMAD2 overexpression plasmid (Red)/empty vector (Blue) using anti-SMAD2 antibody. Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).

Product datasheet

Anti-SMAD2 Antibody
(Clone#OTI2C10)

Catalog Number: M00090-4

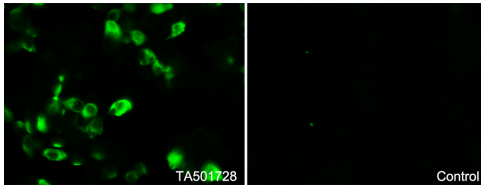


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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com **Phone:** 027-67845390/1/2 **Email:** boster@boster.com



Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY SMAD2 using anti-SMAD2 antibody. 293T cells transfected with empty vector served as a negative control (right) (1:100).