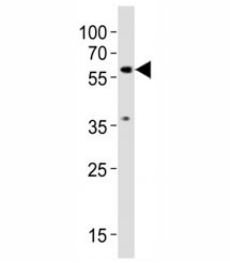
SMAD2 Antibody (F53216)

Catalog No.	Formulation	Size
F53216-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53216-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q15796
Applications	Western blot: 1:1000
Limitations	This SMAD2 antibody is available for research use only.



Western blot testing of SMAD2 antibody at 1:1000 dilution + NIH3T3 lysate; Predicted molecular weight: 52~60 kDa.

Description

SMAD2 is a receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. [UniProt]

Explore our SMAD2 Antibody for additional research into TGF-beta signaling, transcriptional regulation, and cell

proliferation, with Western blot validation using HeLa wild-type and SMAD2 knockout cell lysates.

Application Notes

Titration of the SMAD2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This SMAD2 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 106-140 amino acids from the N-terminal region of human SMAD2.

Storage

Aliquot the SMAD2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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