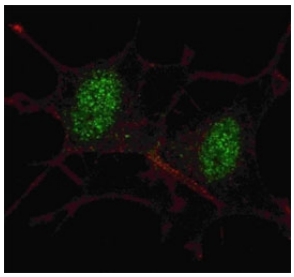
SMAD2 Antibody (F50345)

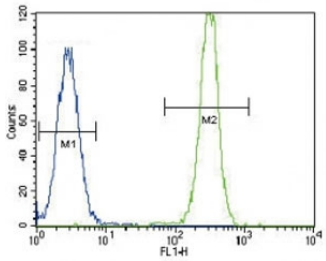
Catalog No.	Formulation	Size
F50345-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50345-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

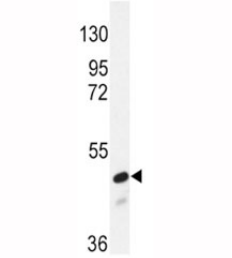
Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rat, Bovine, Pig, Chicken, Zebrafish, Drosophila
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q15796
Applications	Immunofluorescence : 1:100 Western Blot : 1:1000 Flow Cytometry : 1:10-1:50
Limitations	This SMAD2 antibody is available for research use only.



Fluorescent confocal image of SY5Y cells stained with SMAD2 antibody at 1:100. Note the highly specific localization of the SMAD2 to the nucleus.



SMAD2 antibody flow cytometric analysis of HeLa cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Western blot analysis of SMAD2 antibody and NIH3T3 lysate. Predicted molecular weight: 52~60 kDa.

Description

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]

Application Notes

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

Immunogen

A portion of amino acids 97-125 from the human protein was used as the immunogen for this SMAD2 antibody.

Storage

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