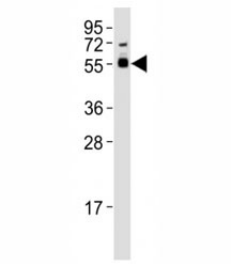
SMAD3 Antibody (F53157)

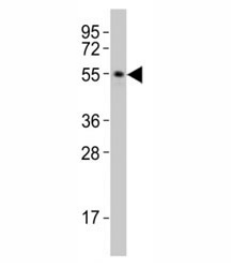
Catalog No.	Formulation	Size
F53157-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53157-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P84022
Applications	Western blot: 1:1000-2000
Limitations	This SMAD3 antibody is available for research use only.



Western blot testing of SMAD3 antibody at 1:1000 dilution + mouse brain lysate; Observed molecular weight: 48~55 kDa.



Western blot testing of SMAD3 antibody at 1:2000 dilution + rat brain lysate; Observed molecular weight: 48~55 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 SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF- mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. [UniProt]

To learn more about this target, explore our SMAD3 Antibody / TGF-beta Signaling Protein Antibody page featuring additional information and antibodies for SMAD3 detection.

Application Notes

Titration of the SMAD3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This SMAD3 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 186-219 amino acids from the Central region of human SMAD3.

Storage

Aliquot the SMAD3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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