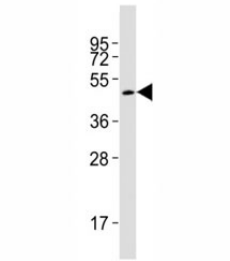
Smad3 Antibody (F53247)

Catalog No.	Formulation	Size
F53247-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53247-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8BUN5
Applications	Western Blot : 1:2000
Limitations	This Smad3 antibody is available for research use only.



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 (By

similarity). [UniProt]

Application Notes

Titration of the Smad3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This mouse Smad3 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 157-191 amino acids from the Central region of mouse Smad3.

Storage

Aliquot the Smad3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.