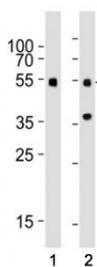


## Smad3 Antibody (F53204)

Catalog No.	Formulation	Size
F53204-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53204-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>UniProt</b>	Q8BUN5
<b>Applications</b>	Western Blot : 1:1000
<b>Limitations</b>	This Smad3 antibody is available for research use only.



Western blot testing of Smad3 antibody at 1:1000 dilution. Lane 1: mouse brain tissue lysate; 2: rat brain tissue 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 188-222 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.