

# SMAD3 Monoclonal Antibody

Catalog Number:E-AB-22241



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

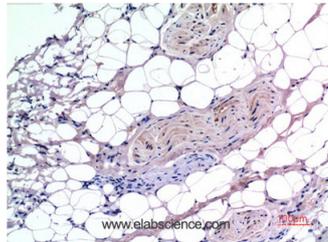
## Description

<b>Reactivity</b>	Human,Mouse,Rat
<b>Immunogen</b>	Synthetic Peptide of Smad3
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Clone</b>	Clone:4C9
<b>Purification</b>	Protein A purification
<b>Formulation</b>	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

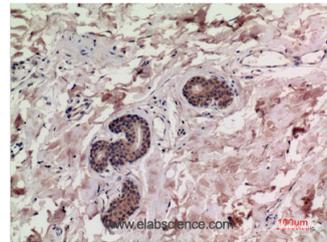
## Applications Recommended Dilution

<b>IHC</b>	1:100-200
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## Data



Immunohistochemistry of paraffin-embedded Human liver carcinoma tissue using Smad3 Monoclonal Antibody at dilution of 1:200.  
**Observed Mw:52kDa**



Immunohistochemistry of paraffin-embedded Human breast carcinoma tissue using Smad3 Monoclonal Antibody at dilution of 1:200.

## Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

## Background

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.

## For Research Use Only

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