

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

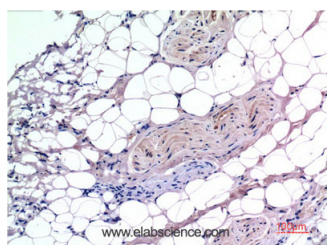
## Description

|                     |  |
|---------------------|--|
| <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 |

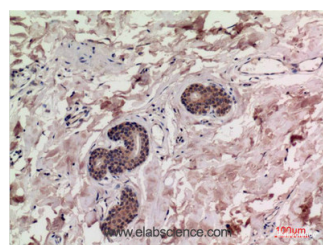
## Applications Recommended Dilution

|            |           |
|------------|-----------|
| <b>IHC</b> | 1:100-200 |
|------------|-----------|

## 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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