

## Smad3 (4H4) Mouse mAb

db6613

Package : 50µL 100µL

**Product Name** : Smad3 (4H4) Mouse mAb**Cat.No.:** db6613**Synonyms** : hMAD3; HSPC193; LDS1C; MADH3; JV15 2**Application** : WB, IHC-P**Reactivity** : Human, Rat, Mouse**Host species** : Mouse**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.

**Immunogen**

Purified recombinant protein expressed in E.coli

**Gene ID**

4088

**Swiss Prot**

P84022

**Synonyms**

hMAD3; HSPC193; LDS1C; MADH3; JV15 2

**Reactivity**

Human, Rat, Mouse

**Application**

WB, IHC-P

**Recommended dilution**WB: 1:500-1:1000  
IHC: 1:50-1:100**Calculated MW**

48 kDa

**Observed MW**

48 kDa

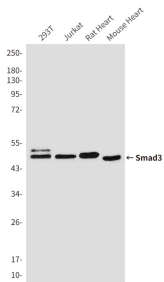
**Host species**

Mouse

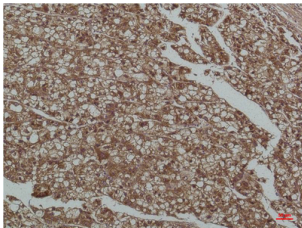
**Clonality**

Monoclonal

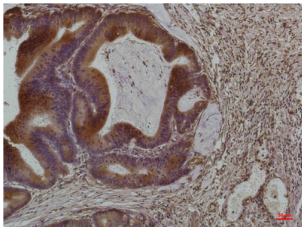
Clonality No.	4H4-10A10-7B4
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Western blot analysis of Smad3 (4H4)in 293T, Jurkat, rat Heart, mouse Heart lysates using Smad3 antibody.



Immunohistochemistry analysis of paraffin-embedded Human Liver Tissue using Smad3 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemistry analysis of paraffin-embedded Human Colon Carcinoma using Smad3 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.