

	<h2>Smad3 Mouse mAb (3F4)</h2>	E 2 2 5 0 3 2 7
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<b>Swiss-Prot No.:</b>	P84022
<b>Altername:</b>	SMAD3
<b>Storage/Stability:</b>	Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Immunogen:</b>	Synthetic peptide conjugated to KLH.
<b>Purification:</b>	Affinity purified
<b>Reactivity:</b>	Human,Rat,Mouse
<b>Other Names:</b>	hMAD3, HSPC193, LDS1C, MADH3, JV15 2
<b>Background:</b>	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.

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	Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.
<b>Gene ID:</b>	4088
<b>Cellular localization:</b>	Cytoplasm, Nucleus
<b>Source:</b>	Mouse
<b>Antibody type:</b>	Monoclonal antibody
<b>Isotype:</b>	IgG1
<b>Molecular Weight:</b>	50kDa
<b>Preservative:</b>	PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
<b>Recommended Dilutions:</b>	WB 1:1,000-2,000 IHC 1:100-200 (Optimal dilutions should be determined by the end user)
<b>Clone Number:</b>	3F4-4D1-8E6
<b>Form of Antibody:</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.