Phospho-Smad3 (S425) Mouse mAb (7H6)

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Swiss-Prot No.:	P84022
Alternname:	SMAD3
Storage/Stability:	Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Immunogen:	Synthetic peptide conjugated to KLH.
Purification:	Affinity purified
Reactivity:	Human,Rat,Mouse
Other Names:	hMAD3, HSPC193, LDS1C, MADH3, JV15 2
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.

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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.
Gene ID:	4088
Cellular localization:	Cytoplasm, Nucleus
Source:	Mouse
Antibody type:	Monclonal antibody
Isotype:	lgG1
Molecular Weight:	50kDa
Preservative:	PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Recommended Dilutions:	IHC 1:100-200 (Optimal dilutions should be determined by the end user)
Clone Number:	7H6-4E5-4H2
Form of Antibody:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.