

Product datasheet for **TA385274S**

SMAD3 Rabbit Monoclonal Antibody [Clone ID: R02-112]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R02-112
Applications:	IP, WB
Recommended Dilution:	WB: 1/1000 IP: 1/20
Reactivity:	Human, Mouse, Rat, Hamster
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant protein of human Smad3
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 48 kDa; Observed MW: 52 kDa
Gene Name:	SMAD family member 3
Database Link:	Entrez Gene 4088 Human P84022



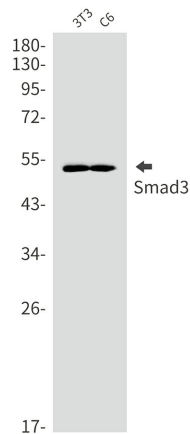
[View online »](#)

Background:

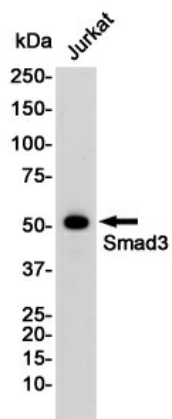
Swiss-Prot Acc.P84022.Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta 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.

Synonyms:

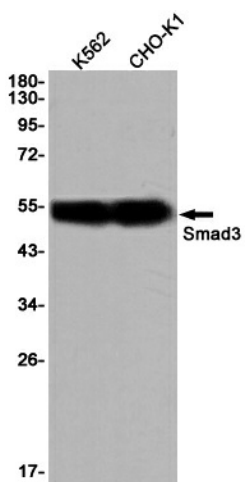
DKFZp586N0721; DKFZp686J10186; hMAD-3; hSMAD3; HSPC193; HsT17436; JV15-2; Mad3; MADH3; MGC60396

Product images:

Western blot analysis of Smad3 in 3T3, C6 lysates using Smad3 antibody.



Western blot analysis of Smad3 in Jurkat lysates using Smad3 antibody.



Western blot analysis of Smad3 in K562, CHO-K1 lysates using Smad3 antibody