

## Product datasheet for **TA385269**

### SMAD3 Mouse Monoclonal Antibody [Clone ID: 7H6-4E5-4H2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	7H6-4E5-4H2
Applications:	IHC
Recommended Dilution:	IHC: 1/100-200
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. (Phosphorylated)
Formulation:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.03% Proclin 300, pH 7.3.
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:	50kDa
Gene Name:	SMAD family member 3
Database Link:	<a href="#">Entrez Gene 4088 Human P84022</a>



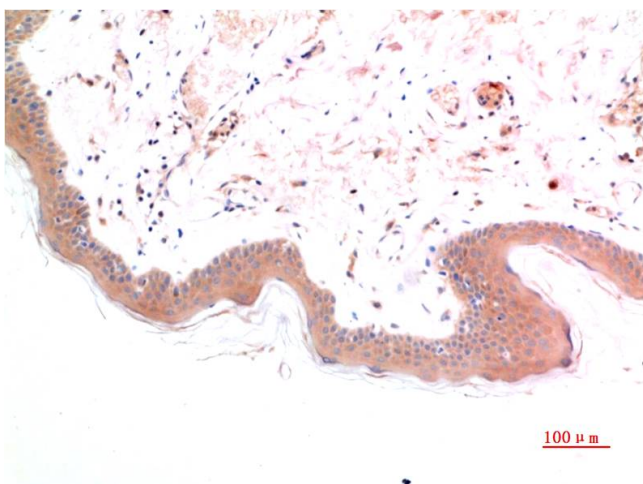
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**Background:**

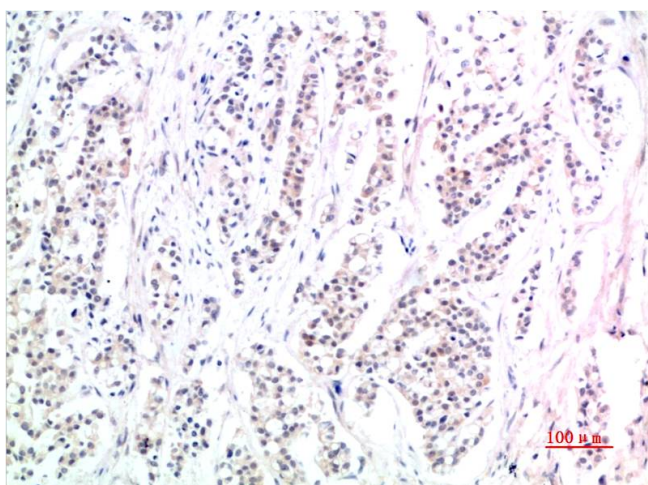
Swiss-Prot Acc.P84022.Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta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

Immunohistochemistry analysis of paraffin-embedded Human Skin Tissue using Phospho-Smad3 (Ser425) (7H6) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemical analysis of paraffin-embedded Human tonsils using Phospho-Smad3 (Ser425) (7H6) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.