



Anti-SMAD3 (aa 417-425) polyclonal antibody (DPABH-12007)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
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Immunogen	Synthetic peptide: PSIRCSSVS conjugated to KLH, corresponding to C terminal amino acids 417-425 of Human Smad3 (NP_005893.1).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, WB, IHC-P, ICC/IF
Format	Liquid
Size	50 µg

Buffer	pH: 7.20; Constituents: 0.27% Potassium phosphate, 0.88% Sodium chloride
Preservative	0.01% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	SMAD3 SMAD family member 4 [Homo sapiens]
Official Symbol	SMAD3
Synonyms	SMAD3; SMAD family member 3; LDS3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436; mothers against decapentaplegic homolog 3; mad3; hMAD-3; hSMAD3; MAD homolog 3; mad homolog JV15-2; mad protein homolog; mothers against DPP homolog 3; SMA- and MAD-related protein 3; SMAD, mothers against DPP homolog 3; MAD, mothers against decapentaplegic homolog 3;
Entrez Gene ID	4088
Protein Refseq	NP_001138574.1
UniProt ID	P84022
Pathway	AGE/RAGE pathway; Adherens junction; Alpha6-Beta4 Integrin Signaling Pathway; Cell cycle
Function	R-SMAD binding; RNA polymerase II activating transcription factor binding; bHLH transcription factor binding; beta-catenin binding