antibodies

Datasheet for ABIN7318786 SMAD3 Protein (His tag,DYKDDDDK Tag)

Background:



Overview	
Quantity:	50 µg
Target:	SMAD3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD3 protein is labelled with His tag, DYKDDDDK Tag.
Product Details	
Purpose:	Recombinant Human SMAD3 Protein (His & Flag Tag)
Sequence:	Ser2-Ser425
Characteristics:	Recombinant Human Mothers Against Decapentaplegic Homolog 3 is produced by our E.coli expression system and the target gene encoding Ser2-Ser425 is expressed with a 6His, Flag tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Target Details	
Target:	SMAD3
Alternative Name:	SMAD3 (SMAD3 Products)

Background: Mothers against decapentaplegic homolog 3(SMAD3) is a cytoplasm protein

which belongs to the dwarfin/SMAD family. Smad proteins undergo rapid nuclear translocation

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	upon stimulation by transforming growth factor and in so doing transduce the signal into the
	nucleus. Receptor-regulated SMAD is an intracellular signal transducer and transcriptional
	modulator activated by TGF-beta and activin type 1 receptor kinases. SMAD3 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. It also can form a
	SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated
	transcription. SMAD3 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.
	Synonym: Mothers against decapentaplegic homolog 3, MAD homolog 3, Mad3, Mothers
	against DPP homolog 3, hMAD-3, JV15-2, SMAD family member 3, SMAD 3, Smad3, hSMAD3,
	SMAD3, MADH3
Molecular Weight:	50.3 kDa
UniProt:	P84022
Pathways:	Cell Division Cycle, Chromatin Binding, Cell-Cell Junction Organization, Positive Regulation of
	Endopeptidase Activity, Autophagy

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,500 mM NaCl, pH 7.5.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.