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Datasheet for ABIN7318785 SMAD2 Protein (His tag, DYKDDDDK Tag)



Overview	
Quantity:	50 µg
Target:	SMAD2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD2 protein is labelled with His tag, DYKDDDDK Tag.
Product Details	
Purpose:	Recombinant Human SMAD2 Protein (His & Flag Tag)
Sequence:	Ser2-Ser467
Characteristics:	Recombinant Human Mothers Against Decapentaplegic Homolog 2 is produced by our E.coli expression system and the target gene encoding Ser2-Ser467 is expressed with a 6His, Flag tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Target Details	
Target:	SMAD2
Alternative Name:	SMAD2 (SMAD2 Products)
Background:	Background: Mothers against decapentaplegic homolog 2(SMAD2) 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. SMAD2 is contains 1 MH1
	(MAD homology 1) domain and1 MH2 (MAD homology 2) domain. It is expressed at high levels
	in skeletal muscle, endothelial cells, heart and placenta. It binds the TRE element in the
	promoter region of many genes that are regulated by TGF-beta and, on formation of the
	SMAD2/SMAD4 complex, activates transcription. It may act as a tumor suppressor in
	colorectal carcinoma. And SMAD2 positively regulates PDPK1 kinase activity by stimulating its
	dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.
	Synonym: Mothers against decapentaplegic homolog 2, MAD homolog 2, Mad-related protein 2,
	hMAD-2, SMAD family member 2, SMAD 2, Smad2, Hsmad2, SMAD2, MADH2, MADR2
Molecular Weight:	54.6 kDa
UniProt:	Q15796
Pathways:	Cell Division Cycle, Hormone Transport, Chromatin Binding, Protein targeting to Nucleus
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.