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## Datasheet for ABIN7319042 **SMAD4 Protein (His tag)**

### Overview

Quantity:	50 µg
Target:	SMAD4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD4 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human SMAD4 Protein (His Tag)
Sequence:	Met 1-Asp552
Characteristics:	Recombinant Human Mothers Against Decapentaplegic Homolog 4 is produced by our E.coli expression system and the target gene encoding Met1-Asp552 is expressed with a 6His tag at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	SMAD4
Alternative Name:	SMAD4 ( <a href="#">SMAD4 Products</a> )
Background:	Background: SMAD Family Member 4 (SMAD4) is a cytoplasmic protein that belongs to the Dwarf/SMAD family. SMAD4 contains one MH1 (MAD homology 1) domain and one MH2

## Target Details

(MAD homology 2) domain. It is the component of the heterotrimeric SMAD2/SMAD3-SMAD4 complex that forms in the nucleus and is required for the TGF-mediated signaling. SMAD4 promotes binding of the SMAD2/SMAD4/FAST-1 complex to DNA and provides an activation function required for SMAD1 or SMAD2 to stimulate transcription. SMAD4 may act as a tumor suppressor. It positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. Mutations or deletions in SMAD4 have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.

Synonym: Mothers Against Decapentaplegic Homolog 4, MAD Homolog 4, Mothers Against DPP Homolog 4, Deletion Target in Pancreatic Carcinoma 4, SMAD Family Member 4, SMAD 4, Smad4, hSMAD4, SMAD4, DPC4, MADH4

Molecular Weight:	61.5 kDa
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UniProt:	<a href="#">Q13485</a>
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Pathways:	<a href="#">Cell Division Cycle</a> , <a href="#">Chromatin Binding</a> , <a href="#">Autophagy</a>
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## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, pH 8.0.
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Storage:	4 °C, -20 °C, -80 °C
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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.
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