

Datasheet for ABIN7320082
SMAD3 Protein (GST tag,His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	SMAD3
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD3 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Mouse SMAD3 Protein (His & GST Tag)
Sequence:	Met1-Ser425
Characteristics:	A DNA sequence encoding the mouse SMAD3 (NP_058049.3) (Met1-Ser425) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Mouse, Human and Rat sequences are identical.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	SMAD3
Alternative Name:	SMAD3 (SMAD3 Products)
Background:	Background: SMAD3 belongs to the SMAD family. Members of this family mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr

Target Details

protein kinases at the cell surface to the nucleus. SMAD3 is involved in cell signalling. It modulates signals of activin and TGFβ's. Binding of SMAD3 with SMAD4 enables its transmigration into the nucleus where it forms complexes with other proteins and acts as a transcription factor. SMAD3 is a receptor-regulated SMAD (R-SMAD). In mice, mutation of SMAD3 has been linked to colorectal adenocarcinoma, increased systemic inflammation, and accelerated wound healing. Increased SMAD3 activity has been implicated in the pathogenesis of scleroderma. Smad3 is also a multifaceted regulator in adipose physiology and the pathogenesis of obesity and type 2 diabetes.

Synonym: AU022421, Madh3

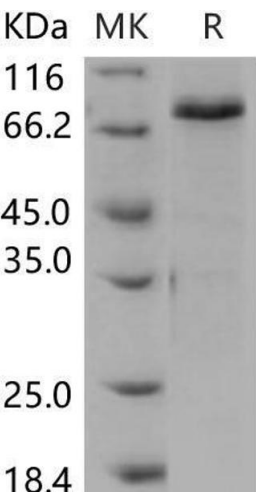
Molecular Weight:	75.9 kDa
UniProt:	P84025
Pathways:	Cell Division Cycle , Chromatin Binding , Cell-Cell Junction Organization , Positive Regulation of Endopeptidase Activity , Autophagy

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 2 mM GSH, 10 % glycerol, pH 7.4
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.



Western Blotting

Image 1.