

Recombinant Mouse SMAD2 Protein, GST & His-tagged

Cat. No. SMAD2-901M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse SMAD2 (Q62432-Isoform Long) (Ser2-Ser467) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Species	Mouse
Source	Insect Cells
ProteinLength	2-467 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol, 3mM DTT1, 5%~8% trehalose and mannitol.
Molecular Mass	The recombinant mouse SMAD2/GST chimera consists of 703 amino acids and has a calculated molecular mass of 80 kDa. The recombinant protein migrates as an approximately 90 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be

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aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [Smad2 MAD homolog 2 \(Drosophila\) \[Mus musculus \]](#)

Official Symbol [SMAD2](#)

Synonyms SMAD2; MAD homolog 2 (Drosophila); mothers against decapentaplegic homolog 2; Smad 2; SMAD family member 2; mad-related protein 2; mothers against DPP homolog 2; Madh2; Madr2; mMad2; Smad-2; 7120426M23Rik;

Gene ID [17126](#)

mRNA Refseq [NM_001252481](#)

Protein Refseq [NP_001239410](#)

MIM

UniProt ID

Pathway Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Cell cycle signaling pa

Function I-SMAD binding; R-SMAD binding; SMAD binding; SMAD binding; activating transcription factor binding; chromatin binding; co-SMAD binding; double-stranded

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DNA binding; phosphatase binding; protein binding; sequence-specific DNA binding
transcription factor

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