

## Recombinant Mouse SMAD2 Protein, GST & His-tagged

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

### SPECIFICATION

|                             |                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant mouse SMAD2 (Q62432-Isoform Long) (Ser2-Ser467) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus.                                                                              |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                      |
| <b>Source</b>               | Insect Cells                                                                                                                                                                                                               |
| <b>ProteinLength</b>        | 2-467 a.a.                                                                                                                                                                                                                 |
| <b>Predicted N Terminal</b> | Met                                                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol, 3mM DTT1, 5%~8% trehalose and mannitol.                                                                                                              |
| <b>Molecular Mass</b>       | 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. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                            |
| <b>Purity</b>               | >90 % as determined by SDS-PAGE.                                                                                                                                                                                           |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                                                                  |
| <b>Storage</b>              | 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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