

## Recombinant Mouse SMAD3 cell lysate

Cat. No. SMAD3-001MCL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Mouse SMAD3 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
<b>Species</b>	Mouse
<b>Source</b>	Insect Cells
<b>Preparation method</b>	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
<b>Lysis buffer</b>	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
<b>Quality control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue
<b>Recommended Usage</b>	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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reducing agent prior to heating.

**Stability**

Samples are stable for up to twelve months from date of receipt at -80°C

**Storage Buffer**

50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

**Storage Instruction**

Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

## GENE INFORMATION

**Gene Name**

[Smad3 MAD homolog 3 \(Drosophila\) \[ Mus musculus \]](#)

**Official Symbol**

SMAD3

**Synonyms**

SMAD3; MAD homolog 3 (Drosophila); mothers against decapentaplegic homolog 3; mad3; mMad3; Smad 3; SMAD family member 3; mothers against DPP homolog 3; Madh3; AU022421;

**Gene ID**

[17127](#)

**mRNA Refseq**

[NM\\_016769](#)

**Protein Refseq**

[NP\\_058049](#)

**Pathway**

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Adipogenesis, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell

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cycle, organism-specific biosystem;

**Function**

DNA binding; R-SMAD binding; RNA polymerase II activating transcription factor binding; SMAD binding; beta-catenin binding; chromatin DNA binding; chromatin binding; co-SMAD binding; collagen binding; core promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; metal ion binding; phosphatase binding; protein binding; protein homodimerization activity; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription factor binding; transcription regulatory region DNA binding; transforming growth factor beta receptor binding; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity; ubiquitin binding; ubiquitin protein ligase binding; zinc ion binding;

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