Recombinant Mouse SMAD2 cell lysate

Cat. No. SMAD2-001MCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse SMAD2 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer.Browse all transfected cell lysate positive controls
Species	Mouse
Source	Insect Cells
Preparation method	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.
Lysis buffer	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
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	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	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
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 pathway, organism-specific biosystem; Chagas disease (American

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	trypanosomiasis), organism-specific biosystem;
Function	I-SMAD binding; R-SMAD binding; SMAD binding; SMAD binding; activating transcription factor binding; chromatin binding; co-SMAD binding; double-stranded DNA binding; phosphatase binding; protein binding; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription factor binding; transforming growth factor beta receptor binding; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity; type I transforming growth factor beta receptor binding; ubiquitin protein ligase binding;

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