

## Recombinant Human SMAD4 293 Cell Lysate

Cat. No. SMAD4-1676HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for SMAD family member 4 (SMAD4) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** SMAD4 SMAD family member 4 [ Homo sapiens ]

**Official Symbol** SMAD4

**Synonyms** SMAD4; SMAD family member 4; MAD, mothers against decapentaplegic homolog 4 (Drosophila) , MADH4, SMAD, mothers against DPP homolog 4 (Drosophila); mothers against decapentaplegic homolog 4; DPC4; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 4; JIP; MADH4; MYHRS;

**Gene ID** 4089

**mRNA Refseq** NM\_005359

**Protein Refseq** NP\_005350

**MIM** 600993

**UniProt ID** Q13485

**Chromosome Location** 18q21.1

**Pathway** ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Androgen Receptor Signaling Pathway,

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organism-specific biosystem; BMP Signalling Pathway, organism-specific biosystem;  
BMP receptor signaling, organism-specific biosystem;

**Function**

contributes\_to DNA binding; DNA binding; I-SMAD binding; R-SMAD binding; SMAD binding; chromatin binding; collagen binding; core promoter proximal region sequence-specific DNA binding; identical protein binding; protein binding; contributes\_to protein binding transcription factor activity; protein homodimerization activity; contributes\_to sequence-specific DNA binding; contributes\_to sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding; transforming growth factor beta receptor, common-partner cytoplasmic mediator activity;

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