Recombinant Human SMAD4 293 Cell Lysate

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

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	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.
Components	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).
Size	0.1 mg
Storage Instruction	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.

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Applications	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 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,

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	organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Androgen Receptor Signaling Pathway, 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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