Recombinant Human SMAD1 293 Cell Lysate

Cat. No. SMAD1-1677HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for SMAD family member 1 (SMAD1), transcript variant 2 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	SMAD1 SMAD family member 1 [Homo sapiens]
Official Symbol	SMAD1
Synonyms	SMAD1; SMAD family member 1; MAD, mothers against decapentaplegic homolog 1 (Drosophila) , MADH1, SMAD, mothers against DPP homolog 1 (Drosophila); mothers against decapentaplegic homolog 1; JV4 1; MADR1; MAD homolog 1; Mad-related protein 1; TGF-beta signaling protein 1; mothers against DPP homolog 1; SMAD, mothers against DPP homolog 1; MAD, mothers against decapentaplegic homolog 1; transforming growth factor-beta signaling protein 1; transforming growth factor-beta-signaling protein 1; BSP1; JV41; BSP-1; JV4-1; MADH1;
Gene ID	4086
mRNA Refseq	NM_001003688
Protein Refseq	NP_001003688
MIM	601595
UniProt ID	Q15797
Chromosome Location	4q31.21

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Pathway	ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Heart Development, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem;
Function	I-SMAD binding; RNA polymerase II core promoter sequence-specific DNA binding; co-SMAD binding; identical protein binding; protein binding; protein kinase binding; receptor signaling protein activity; sequence-specific DNA binding transcription factor activity; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity;

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