

Recombinant Human SMAD7

Cat. No. SMAD7-29105TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human MADH7 with N terminal proprietary tag, 36.74kDa.
Species	Human
Source	Wheat Germ
ProteinLength	101 amino acids
Description	The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFB1), leading to the degradation of both the encoded protein and TGFB1. Expression of this gene is induced by TGFB1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.740kDa inclusive of tags
Tissue specificity	Ubiquitous with higher expression in the lung and vascular endothelium.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	CKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHLS RLCELESPPPPYSRYP MDFLKPTADCPDAVPSSAETGGTN YLAPGGLSDSQLLLEPGDRSH
Sequence Similarities	Belongs to the dwarfin/SMAD family.Contains 1 MH1 (MAD homology 1) domain.Contains 1 MH2 (MAD homology 2) domain.

GENE INFORMATION

Gene Name	SMAD7 SMAD family member 7 [Homo sapiens]
Official Symbol	SMAD7
Synonyms	SMAD7; SMAD family member 7; MAD, mothers against decapentaplegic homolog 7 (Drosophila) , MADH7, MADH8, SMAD, mothers against DPP homolog 7 (Drosophila); mothers against decapentaplegic homolog 7;
Gene ID	4092
mRNA Refseq	NM_001190821
Protein Refseq	NP_001177750
MIM	602932
Uniprot ID	O15105
Chromosome Location	18q21.1

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Pathway	ALK1 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; IFN-gamma pathway, organism-specific biosystem;
Function	I-SMAD binding; activin binding; beta-catenin binding; collagen binding; protein binding;

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