

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	<p>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 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. 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.</p>
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: 8.00 Constituents: 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	CKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHHLS 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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