

Product datasheet for PH310400

MADH7 (SMAD7) (NM_005904) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SMAD7 MS Standard C13 and N15-labeled recombinant protein (NP_005895)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210400
Predicted MW:	46.2 kDa
Protein Sequence:	>RC210400 representing NM_005904 Red=Cloning site Green=Tags(s)

MFRTKRSALVRRLLWRSRAPGGEDEEEAGGGGGGELRGEGATDSRAHGAGGGGPRAGCCLGKAVRGAK
GHHHPHPAAGAGAAGGAADLKALTHSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLCDRLGPGA
PAGAQAQPPSSYSPLLLLCKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHLSRLCELESPPPP
YSRYPMDFLKPTADCPDAVPSSAETGGTNYLAPGGLSDSQQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQ
EPSLDIFYDLPQNGFCLGQLNSDNKSQLVQKVRKIGCGIQLTREVDGVVWYNRSSYPFIK SATLDNP
DSRTLLVHKVFPGF SIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCYTRQFISSPCWLE
VIFNSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_005895
RefSeq Size:	3103
RefSeq ORF:	1278
Synonyms:	CRCS3; MADH7; MADH8



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Locus ID: 4092

UniProt ID: [O15105](#)

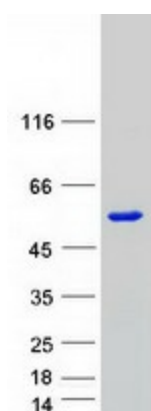
Cytogenetics: 18q21.1

Summary: 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 (TGFBFR1), leading to the degradation of both the encoded protein and TGFBFR1. Expression of this gene is induced by TGFBFR1. 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. [provided by RefSeq, Jun 2010]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: TGF-beta signaling pathway

Product images:



Coomassie blue staining of purified SMAD7 protein (Cat# [TP310400]). The protein was produced from HEK293T cells transfected with SMAD7 cDNA clone (Cat# [RC210400]) using MegaTran 2.0 (Cat# [TT210002]).