

Product datasheet for TP507463

Smad2 (NM_010754) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse SMAD family member 2 (Smad2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207463 protein sequence Red =Cloning site Green =Tags(s)

MSSILPFTPPVVKRLLGWKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKKLKKKTGRLELEKAITTQNC
NTKCVTIPSTCSEIWGLSTANTVDQWDTTGLYSFSEQTRSLDGRLQVSHRKGSLPHVIYCRLLWRWPDHLHSH
HELKAIENCEYAFNLKKDEVCVNPYHYQRVETPVLPPVLPVPRHTEILTELPPLDDYTHSIPENTNFPAGI
EPQSNYIPETPPPGYISEDGETSDQQLNQSMDTGSPAELSPPTLSPVNHSLDLQPVTYSEPAFWCSIAYY
ELNQRVGETFHASQPSLTVDGFTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRQVRLYIGGEVFAECL
SDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIENNQFEAALLAQSVNQGFVAVYQLTRMCTIRMSFVK
GWGAEYRRQTVTSTPCWIELHLNGLPLQWLDKVLTKMGSPSVRCSSMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	52.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_034884</u>
Locus ID:	17126



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UniProt ID: [Q62432](#)

RefSeq Size: 8752

Cytogenetics: 18 51.42 cM

RefSeq ORF: 1404

Synonyms: 7120426M23Rik; Madh2; Madr2; mMad2; Smad-2

Summary: Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator (By similarity).[UniProtKB/Swiss-Prot Function]