

Product datasheet for TP516928

Smurf2 (NM_025481) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse SMAD specific E3 ubiquitin protein ligase 2 (Smurf2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216928 protein sequence Red=Cloning site Green=Tags(s)

MSNPGGRRNGPVKLRLTVLCAKNLVKKDFFRLPDPFAKVVDGSGQCHSTDTVKNTLDPKWNQHYDLYIG
KSDSVTISVWNHKKIHKKQGAGFLGCVRLSNAINRLKDTGYQRDLCKLGPNDNDTVRGQIVVSLQSRD
RIGTGGQVVDCSRFDNDLPDGWEERTASGRIQYLNHITRTTQWERPTRPASEYSSPGRPLSCFVDENT
PITGTNGATCGHSSDPRLAERRVRSQRHRNYMSRTHLHTPPDLPEGYEQRTTQQGQVYFLHTQTGVSTWH
DPRVPRDLSNINCEELGPLPPGWEIRNTATGRVYFVDHNNRTTQFTDPRLSANLHLVLRQNQLKDQQQQ
QVVPLCPDDTECLTVPRYKRDVQKLKILRQELSQQPQAGHCRIEVSREEIFEESYRQVMKMRPKDLWK
RLMIKFRGEEGLDYGGVAREWLYLLSHEMLNPPYGLFQYSRDDIYTLQINPDSAVNPEHLSYFHFVGRIM
GMAVFHGHYIDGGFTLPFYKQLLGKSITLDDMELVDPDLHNSLVWILENDITGVL DHTFCVEHNAYGEII
QHELKPNGKSIPVTEENKKEYVRLYVNWRFRLRGIEAQFLALQKGFNEVIPQHLLKTFDEKELELIICGLG
KIDVSDWKVNTRLKHCTPDSNVVWKFVWKAVEFFDEERRARLLQFVTGSSRVPLQGFKALQGAAGPRLFTI
HQIDACTNMLPKAHTCFNRIDIPPYESYKLYEKLLTAIEETCGFAVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	86.2 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.



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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_079757</u>
Locus ID:	66313
UniProt ID:	<u>A2A5Z6</u> , <u>Q9CSE3</u>
RefSeq Size:	5346
Cytogenetics:	11 E1
RefSeq ORF:	2247
Synonyms:	2810411E22Rik; AI558114; AI649275
Summary:	<p>E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Interacts with SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-dependent degradation. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may recruit substrates, such as SNON, for ubiquitin-mediated degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1 protein and a smaller decrease of SMAD2 level.[UniProtKB/Swiss-Prot Function]</p>