

## Recombinant Mouse Smurf2 Protein, Myc/DDK-tagged

Cat. No. Smurf2-5985M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length SMAD specific E3 ubiquitin protein ligase 2 (Smurf2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<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. Negatively regulates TGFB1-induced epithelial-mesenchymal transition and myofibroblast differentiation.</p>
<b>Molecular Mass</b>	86.2 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade after receiving vials.

**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Smurf2 SMAD specific E3 ubiquitin protein ligase 2 [ *Mus musculus* (house mouse) ]

**Official Symbol** Smurf2

**Synonyms** SMURF2; SMAD specific E3 ubiquitin protein ligase 2; E3 ubiquitin-protein ligase SMURF2; SMAD ubiquitination regulatory factor 2; SMAD-specific E3 ubiquitin-protein ligase 2; AI558114; AI649275; 2810411E22Rik

**Gene ID** 66313

**mRNA Refseq** NM\_025481

**Protein Refseq** NP\_079757

**UniProt ID** A2A5Z6

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