

Recombinant Human SMURF2, GST-tagged

Cat. No. SMURF2-138H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SMURF2 (amino acid residues 1-748), with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-748 a.a.
Description	The enzymes of the ubiquitylation pathway play a pivotal role in a number of cellular processes including the regulated and targeted proteasome-dependent degradation of substrate proteins. Three classes of enzymes are involved in the process of ubiquitylation; activating enzymes (E1s), conjugating enzymes (E2s) and protein ligases (E3s). Smad-Specific E3 Ubiquitin Protein Ligase 1 (SMURF2) is a member of the E3 protein ligase family and cloning of the human gene was first described by Kavsak et al. (2000). SMURF2 is a HECT domain ubiquitin E3 ligase that has been shown to regulate cell polarity, senescence and tumor suppression (Blank et al., 2012).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Molecular Mass	~114kDa
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.

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Concentration 0.5mg/ml

GENE INFORMATION

Gene Name SMURF2 SMAD specific E3 ubiquitin protein ligase 2 [Homo sapiens]

Official Symbol SMURF2

Synonyms SMURF2; SMAD specific E3 ubiquitin protein ligase 2; E3 ubiquitin-protein ligase SMURF2; hSMURF2; E3 ubiquitin ligase SMURF2; SMAD ubiquitination regulatory factor 2; SMAD-specific E3 ubiquitin-protein ligase 2; MGC138150; DKFZp686F0270;

Gene ID 64750

mRNA Refseq NM_022739

Protein Refseq NP_073576

MIM 605532

UniProt ID Q9HAU4

Chromosome Location 17q22-q23

Pathway Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Endocytosis, organism-specific biosystem;

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Function

SMAD binding; acid-amino acid ligase activity; identical protein binding; ligase activity; protein binding; ubiquitin-protein ligase activity;

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