

## Recombinant Human SMURF2, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SMURF2 (amino acid residues 1-748), with N-terminal GST, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-748 a.a.
<b>Description</b>	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).
<b>Form</b>	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
<b>Molecular Mass</b>	~114kDa
<b>Storage</b>	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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