SMURF1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	SMURF1, Blocking Peptide
Full Product Name	SMURF1 Immunizing Peptide
Product Gene Name	SMURF1 blocking peptide
Product Synonym Names	SMURF1; SMAD specific E3 ubiquitin protein ligase 1; HGNC: 16807; KIAA1625; E3 ubiquitin ligase SMURF1; Smad ubiquitination regulatory factor 1; Smad-specific E3 ubiquitin ligase 1
Sequence	C-PSEGSLED EELPAQ
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Molecular Weight	83,440 Da
OMIM	605568
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for SMURF1 blocking peptide	MBS425500 is a blocking peptide targeting SMURF1. Also known as SMURF1 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of SMURF1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMURF1. It may not necessarily be applicable to this product.

NCBI GI #	31317292
NCBI GeneID	57154
NCBI Accession #	NP_065162.1
NCBI Related Accession #	NP_851994.1
UniProt Secondary Accession #	O75853; Q547Q3; Q9UJT8; A4D279; B7ZMB6; B9EGV3
UniProt Related Accession #	Q9HCE7
GenBank Nucleotide #	NM_020429.2
NCBI Official Full Name	E3 ubiquitin-protein ligase SMURF1 isoform 1
NCBI Official Synonym Full Names	SMAD specific E3 ubiquitin protein ligase 1
NCBI Official Symbol	SMURF1
UniProt Protein Name	E3 ubiquitin-protein ligase SMURF1
UniProt Synonym Protein Names	SMAD ubiquitination regulatory factor 1; SMAD-specific E3 ubiquitin-protein ligase 1
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	SMURF1

UniProt Synonym Gene Names	KIAA1625; hSMURF1
UniProt Entry Name	SMUF1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase SMURF1
NCBI Summary for SMURF1	This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. This protein plays a key roll in the regulation of cell motility, cell signalling, and cell polarity. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Dec 2010]
UniProt Comments for SMURF1	SMURF1: E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway. Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway. Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA. Interacts with TRAF4. Interacts (via HECT domain) with FBXL15 (via LRR repeats). Interacts with SMAD7 and TGFBR1; SMAD7 recruits SMURF1 to TGFBR1 and regulates TGF-beta receptor degradation. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Ubiquitin conjugating system; EC 6.3.2.-; EC 6.3.2.19; Ubiquitin ligase Chromosomal Location of Human Ortholog: 7q22.1 Cellular Component: axon; cell soma; cytoplasm; cytosol; mitochondrion; nucleoplasm; nucleus; plasma membrane Molecular Function: activin binding; ligase activity; phospholipid binding; protein binding; ubiquitin-protein ligase activity Biological Process: BMP signaling pathway; cell differentiation; ectoderm development; negative regulation of BMP signaling pathway; negative regulation of ossification; negative regulation of transforming growth factor beta receptor signaling pathway; positive regulation of defense response to virus by host; proteasomal ubiquitin-dependent protein catabolic process; protein export from nucleus; protein polyubiquitination; protein ubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; receptor catabolic process; transforming growth factor beta receptor signaling pathway; ubiquitin-dependent SMAD protein catabolic process; Wnt receptor signaling pathway, planar cell polarity pathway
Research Articles on SMURF1	**1.** a model that CD166 regulates MCAM through a signaling flow from activation of PI3K/AKT and c-Raf/MEK/ERK signaling to the inhibition of potential MCAM ubiquitin E3 ligases, betaTrCP and Smurf1.
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