SMURF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMURF1, Polyclonal Antibody
Full Product Name	SMURF1 (E3 Ubiquitin-protein Ligase SMURF1, hSMURF1, SMAD Ubiquitination Regulatory Factor 1, KIAA1625, SMAD-specific E3 Ubiquitin-protein
Product Gene Name	anti-SMURF1 antibody
Product Synonym Names	EC=6.3.2.-
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SMURF1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	83,440 Da
OMIM	605568
3D Structure	ModBase 3D Structure for Q9HCE7
Immunogen	Full length human SMURF1, aa1-731 (NP_851994.1).
Immunogen Sequence	MSNPGTRRNGSSIKIRLTVLCAKNLAKKDFFRLPDPFAKIVVDGSGQCHSTDTVKNTLDPKWNQHYDLYVGKTDSITISVWNHKKIHKKQGAGFLGCVRLL
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-SMURF1 antibody	Antibodies; Ubiquitin Ligases
Applications Tested/Suitable for anti-SMURF1 antibody	Western Blot (WB)
Application Notes for anti-SMURF1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-SMURF1 antibody	MaxLight490 is a new Blue-Green photostable dye conjugate comparable to DyLight488, Alexa Fluor488 and offers better labeling efficiency, brighter i
Other Notes	Small volumes of anti-SMURF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec
Searchable Terms for SMURF1 purchase	MBS6394526 is an antibody targeting SMURF1. Also known as SMURF1 (E3 Ubiquitin-protein Ligase SMURF1, hSMURF1, SMAD Ubiquitination Reg

ADDITIONAL DETAILS

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

NCBI GI #	31317290
NCBI GeneID	57154
NCBI Accession #	NP_851994.1
UniProt Primary Accession #	Q9HCE7
UniProt Secondary Accession #	O75853; Q547Q3; Q9UJT8; A4D279; B7ZMB6; B9EGV3
UniProt Related Accession #	Q9HCE7
GenBank Nucleotide #	NM_181349
NCBI Official Full Name	E3 ubiquitin-protein ligase SMURF1 isoform 2
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; hSMURF1; E3 ubiquitin ligase SMURF1; Smad-specific E3 ubiquitin ligase 1; Smad ubiquitination regulatory factor 1; SMAD-specific E3 ubiquitin-protein ligase 1
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: EC 6.3.2.19; Ubiquitin conjugating system; EC 6.3.2.-; Ligase; 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.** association of cortactin with Pfn-1 is regulated by c-Abl-mediated cortactin phosphorylation
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