

SMURF1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14957c**Specification**

SMURF1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9HCE7](#)**SMURF1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 57154**Other Names**

E3 ubiquitin-protein ligase SMURF1, hSMURF1, 632-, SMAD ubiquitination regulatory factor 1, SMAD-specific E3 ubiquitin-protein ligase 1, SMURF1, KIAA1625

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SMURF1 Antibody (Center) Blocking Peptide - Protein Information**Name** SMURF1**Synonyms** KIAA1625**Function**

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. Promotes ubiquitination and subsequent proteasomal degradation of MAVS (PubMed:23087404). Acts as an antagonist of TGF-beta signaling by ubiquitinating TGFBR1 and targeting it for degradation (PubMed:21791611). Plays a role in dendrite formation by melanocytes (PubMed:23999003).

Cellular Location

Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side

Tissue Location

Expressed in melanocytes (PubMed:23999003).

SMURF1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SMURF1 Antibody (Center) Blocking Peptide - Images

SMURF1 Antibody (Center) Blocking Peptide - Background

This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. A similar protein in *Xenopus* is involved in embryonic pattern formation. Alternative splicing results in multiple transcript variants encoding different isoforms. An additional transcript variant has been identified, but its full length sequence has not been determined.

SMURF1 Antibody (Center) Blocking Peptide - References

Li, S., et al. Mol. Cell. Biochem. 338 (1-2), 11-17 (2010) : Franke, A., et al. Nat. Genet. 42(4):292-294(2010) Alarcon, C., et al. Cell 139(4):757-769(2009) Crose, L.E., et al. J. Biol. Chem. 284(20):13301-13305(2009) Narimatsu, M., et al. Cell 137(2):295-307(2009)