

FBXL17 Isoform 2 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20590c**Specification**

FBXL17 Isoform 2 Blocking Peptide (C-term) - Product InformationPrimary Accession [Q9UF56](#)**FBXL17 Isoform 2 Blocking Peptide (C-term) - Additional Information**

Gene ID 64839

Other Names

F-box/LRR-repeat protein 17, F-box and leucine-rich repeat protein 17, F-box only protein 13, FBXL17, FBL17, FBX13, FBXO13

Target/Specificity

The synthetic peptide sequence is selected from aa 282-297 of HUMAN FBXL17

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.

FBXL17 Isoform 2 Blocking Peptide (C-term) - Protein Information**Name** FBXL17 {ECO:0000303|PubMed:24035498, ECO:0000312|HGNC:HGNC:13615}**Function**

Substrate-recognition component of the SCF(FBXL17) E3 ubiquitin ligase complex, a key component of a quality control pathway required to ensure functional dimerization of BTB domain-containing proteins (dimerization quality control, DQC) (PubMed:30190310). FBXL17 specifically recognizes and binds a conserved degron of non-consecutive residues present at the interface of BTB dimers of aberrant composition: aberrant BTB dimer are then ubiquitinated by the SCF(FBXL17) complex and degraded by the proteasome (PubMed:30190310). The ability of the SCF(FBXL17) complex to eliminate compromised BTB dimers is required for the differentiation and survival of neural crest and neuronal cells (By similarity). The SCF(FBXL17) complex mediates ubiquitination and degradation of BACH1 (PubMed:24035498, PubMed:30190310). The SCF(FBXL17) complex is also involved in the regulation of the hedgehog/smoothed (Hh)

signaling pathway by mediating the ubiquitination and degradation of SUFU, allowing the release of GLI1 from SUFU for proper Hh signal transduction (PubMed:27234298). The SCF(FBXL17) complex mediates ubiquitination and degradation of PRMT1 (By similarity).

Cellular Location

Cytoplasm. Nucleus Note=Present in the cytoplasm and nucleus; more abundant in the cytoplasm.

FBXL17 Isoform 2 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

FBXL17 Isoform 2 Blocking Peptide (C-term) - Images**FBXL17 Isoform 2 Blocking Peptide (C-term) - Background**

Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex (By similarity).

FBXL17 Isoform 2 Blocking Peptide (C-term) - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Bechtel S., et al. BMC Genomics 8:399-399(2007).
Schmutz J., et al. Nature 431:268-274(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.