

FBXW5 Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19495c

Specification

FBXW5 Antibody(Center) Blocking peptide - Product Information

Primary Accession [Q969U6](#)

FBXW5 Antibody(Center) Blocking peptide - Additional Information

Gene ID 54461

Other Names

F-box/WD repeat-containing protein 5, F-box and WD-40 domain-containing protein 5, FBXW5, FBW5

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.

FBXW5 Antibody(Center) Blocking peptide - Protein Information

Name FBXW5

Synonyms FBW5

Function

Substrate recognition component of both SCF (SKP1-CUL1-F-box protein) and DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes. Substrate recognition component of the SCF(FBXW5) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of SASS6 during S phase, leading to prevent centriole reduplication. The SCF(FBXW5) complex also mediates ubiquitination and degradation of actin-regulator EPS8 during G2 phase, leading to the transient degradation of EPS8 and subsequent cell shape changes required to allow mitotic progression. Substrate-specific adapter of the DCX(FBXW5) E3 ubiquitin-protein ligase complex which mediates the polyubiquitination and subsequent degradation of TSC2. May also act as a negative regulator of MAP3K7/TAK1 signaling in the interleukin-1B (IL1B) signaling pathway.

Cellular Location

Cytoplasm.

FBXW5 Antibody(Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

FBXW5 Antibody(Center) Blocking peptide - Images

FBXW5 Antibody(Center) Blocking peptide - Background

This gene encodes a member of the F-box protein family, members of which are characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into three classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene contains WD-40 domains, in addition to an F-box motif, so it belongs to the Fbw class. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene, however, they were found to be nonsense-mediated mRNA decay (NMD) candidates, hence not represented.

FBXW5 Antibody(Center) Blocking peptide - References

Davila, S., et al. Genes Immun. 11(3):232-238(2010) Minoda, Y., et al. Biochem. Biophys. Res. Commun. 381(3):412-417(2009) Hu, J., et al. Genes Dev. 22(7):866-871(2008) Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004) Humphray, S.J., et al. Nature 429(6990):369-374(2004)