

FBXW11 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11217c**Specification**

FBXW11 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q9UKB1](#)**FBXW11 Antibody (Center) Blocking peptide - Additional Information**

Gene ID 23291

Other Names

F-box/WD repeat-containing protein 11, F-box and WD repeats protein beta-TrCP2, F-box/WD repeat-containing protein 1B, Homologous to Slimb protein, HOS, FBXW11, BTRCP2, FBW1B, FBXW1B, KIAA0696

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.

FBXW11 Antibody (Center) Blocking peptide - Protein Information**Name** FBXW11 {ECO:0000303|PubMed:26837067, ECO:0000312|HGNC:HGNC:13607}**Function**

Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:10437795, PubMed:11158290, PubMed:10648623, PubMed:20347421, PubMed:19966869, PubMed:22017875, PubMed:22017876, PubMed:36608670). Probably recognizes and binds to phosphorylated target proteins: the interaction with substrates requires the phosphorylation of the two serine residues in the substrates' destruction motif D-S-G-X(2,3,4)-S (PubMed:10437795, PubMed:10648623, PubMed:20347421, PubMed:19966869, PubMed:22017875, PubMed:22017876, PubMed:36608670).

[19966869](http://www.uniprot.org/citations/19966869), PubMed: [22017875](http://www.uniprot.org/citations/22017875), PubMed: [22017876](http://www.uniprot.org/citations/22017876), PubMed: [36608670](http://www.uniprot.org/citations/36608670)). SCF(FBXW11) mediates the ubiquitination of phosphorylated CTNNB1 and participates in Wnt signaling regulation (PubMed: [10321728](http://www.uniprot.org/citations/10321728)). SCF(FBXW11) plays a key role in NF-kappa-B activation by mediating ubiquitination of phosphorylated NFKBIA, leading to its degradation by the proteasome, thereby allowing the associated NF-kappa-B complex to translocate into the nucleus and to activate transcription (PubMed: [10321728](http://www.uniprot.org/citations/10321728), PubMed: [10644755](http://www.uniprot.org/citations/10644755), PubMed: [10437795](http://www.uniprot.org/citations/10437795), PubMed: [20347421](http://www.uniprot.org/citations/20347421)). The SCF(FBXW11) complex also regulates NF-kappa-B by mediating ubiquitination of phosphorylated NFKB1: specifically ubiquitinates the p105 form of NFKB1, leading to its degradation (PubMed: [11158290](http://www.uniprot.org/citations/11158290)). SCF(FBXW11) mediates the ubiquitination of IFNAR1 (PubMed: [14532120](http://www.uniprot.org/citations/14532120), PubMed: [15337770](http://www.uniprot.org/citations/15337770)). SCF(FBXW11) mediates the ubiquitination of CEP68; this is required for centriole separation during mitosis (PubMed: [25503564](http://www.uniprot.org/citations/25503564)). Involved in the oxidative stress-induced a ubiquitin-mediated decrease in RCAN1 (PubMed: [18575781](http://www.uniprot.org/citations/18575781)). Mediates the degradation of CDC25A induced by ionizing radiation in cells progressing through S phase and thus may function in the intra-S-phase checkpoint (PubMed: [14603323](http://www.uniprot.org/citations/14603323)). Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and phosphorylated PER2 (PubMed: [15917222](http://www.uniprot.org/citations/15917222)). SCF(FBXW11) mediates the ubiquitination of CYTH1, and probably CYTH2 (PubMed: [29420262](http://www.uniprot.org/citations/29420262)). SCF(FBXW11) acts as a regulator of mTORC1 signaling pathway by catalyzing ubiquitination and subsequent proteasomal degradation of phosphorylated DEPTOR, TFE3 and MITF (PubMed: [22017875](http://www.uniprot.org/citations/22017875), PubMed: [22017876](http://www.uniprot.org/citations/22017876), PubMed: [36608670](http://www.uniprot.org/citations/36608670)).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q5SRY7}. Nucleus {ECO:0000250|UniProtKB:Q5SRY7}

FBXW11 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

FBXW11 Antibody (Center) Blocking peptide - Images

FBXW11 Antibody (Center) Blocking peptide - Background

This gene encodes a member of the F-box protein family which is 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 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or nonrecognizable motifs. The protein encoded by this gene belongs to the Fbws class and, in addition to an F-box, contains multiple WD40 repeats. This gene

contains at least 14 exons, and its alternative splicing generates 3 transcript variants diverging at the presence/absence of two alternate exons.

FBXW11 Antibody (Center) Blocking peptide - References

Peschiaroli, A., et al. Oncogene 29(9):1384-1393(2010) Lievens, S., et al. J. Proteome Res. 8(2):877-886(2009) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Peschiaroli, A., et al. Mol. Cell 23(3):319-329(2006) Sibile, A., et al. Mol. Cell. Biol. 26(16):5994-6004(2006)