10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FBXO3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9195b

Specification

FBXO3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9UK99

FBXO3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 26273

Other Names
F-box only protein 3, FBXO3, FBX3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9195b was selected from the C-term region of human FBXO3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

FBXO3 Antibody (C-term) Blocking Peptide - Protein Information

Name FBXO3

Synonyms FBX3

Function
Substrate recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex, SCF(FBXO3), which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:18809579, PubMed:26037928). Mediates the ubiquitination of HIPK2 and probably that of EP300, leading to rapid degradation by the proteasome (PubMed:18809579). In the presence of PML, HIPK2 ubiquitination still occurs, but degradation is prevented (PubMed:18809579). PML, HIPK2 and FBXO3 may act synergically to activate p53/TP53-dependent transactivation (PubMed:<a

href="http://www.uniprot.org/citations/18809579" target="_blank">18809579). The SCF(FBXO3) also acts as a regulator of inflammation by mediating ubiquitination and degradation of FBXL2 in response to lipopolysaccharide (LPS) (PubMed:26037928). The SCF(FBXO3) complex specifically recognizes FBXL2 phosphorylated at 'Thr-404' and promotes its ubiquitination (By similarity).

Cellular Location
Nucleus. Note=Colocalizes with PML at the peripheries of nuclear bodies

FBXO3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FBXO3 Antibody (C-term) Blocking Peptide - Images

FBXO3 Antibody (C-term) Blocking Peptide - Background

FBXO3 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 the 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 no recognizable motifs.

FBXO3 Antibody (C-term) Blocking Peptide - References

Shima,Y., et.al., Mol. Cell. Biol. 28 (23), 7126-7138 (2008)Ilyin,G.P., et.al., Genomics 67 (1), 40-47 (2000)