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FBXO3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9195b

Product Information

Application	WB, FC, E
Primary Accession	Q9UK99
Other Accession	D4ABP9, Q9DC63, A6H7H7
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23911
Calculated MW	54561
Antigen Region	395-422

Additional Information

Gene ID	26273
Other Names	F-box only protein 3, FBXO3, FBX3
Target/Specificity	This FBXO3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 395-422 amino acids from the C-terminal region of human FBXO3.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FBXO3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FBXO3 (HGNC:13582)
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: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, PubMed:27010866). The SCF(FBXO3) complex specifically recognizes FBXL2 phosphorylated at 'Thr-404' and promotes its ubiquitination (PubMed:27010866).

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

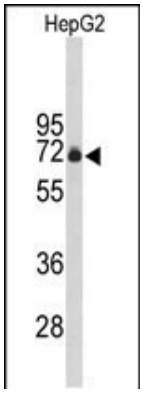
Background

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.

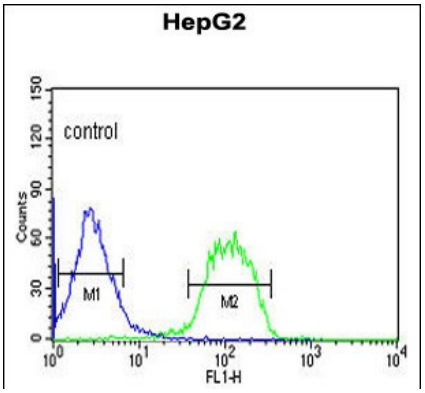
References

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

Images



Western blot analysis of FBXO3 Antibody (C-term) (Cat. #AP9195b) in HepG2 cell line lysates (35ug/lane). FBXO3 (arrow) was detected using the purified Pab.



FBXO3 Antibody (C-term) (Cat. #AP9195b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Targeted inhibition of the COP9 signalosome for treatment of cancer.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.