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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
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

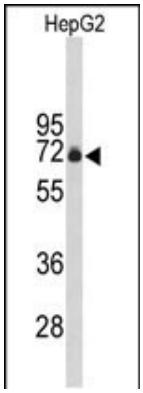
Background

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.

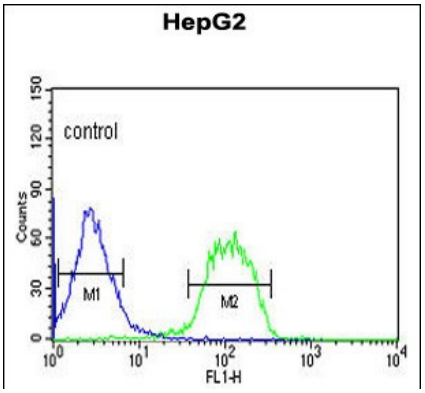
References

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.