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FBXO4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9295c

Product Information

Application	WB, E
Primary Accession	Q9UKT5
Other Accession	Q8CHQ0, Q3T0J1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23912
Calculated MW	44136
Antigen Region	225-251

Additional Information

Gene ID	26272
Other Names	F-box only protein 4, FBXO4, FBX4
Target/Specificity	This FBXO4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 225-251 amino acids from the Central region of human FBXO4.
Dilution	WB~~1:1000 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	FBXO4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FBXO4
Synonyms	FBX4
Function	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3

ubiquitin-protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:10531035, PubMed:18598945, PubMed:20181953, PubMed:29142209). Promotes ubiquitination of cyclin-D1 (CCND1) and its subsequent proteasomal degradation (PubMed:18598945). However, it does not act as a major regulator of CCND1 stability during the G1/S transition (By similarity). Recognizes TERF1 and promotes its ubiquitination together with UBE2D1 (PubMed:16275645, PubMed:20159592). Promotes ubiquitination of FXR1 following phosphorylation of FXR1 by GSK3B, leading to FXR1 degradation by the proteasome (PubMed:29142209).

Cellular Location Cytoplasm {ECO:0000250|UniProtKB:Q8CHQ0}.

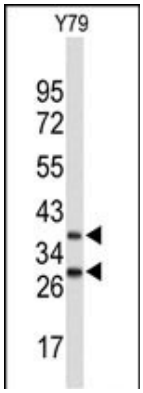
Background

FBXO4 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. The protein belongs to the Fbxs class.

References

Zeng,Z., et.al., Dev. Cell 18 (2), 214-225 (2010)
Barbash,O., et.al., Cancer Cell 14 (1), 68-78 (2008)
Sugiyama,N., et.al., Mol. Cell Proteomics 6 (6), 1103-1109 (2007)

Images



Western blot analysis of FBXO4 Antibody (Center) (Cat. #AP9295c) in Y79 cell line lysates (35ug/lane). FBXO4 (arrow) was detected using the purified Pab.

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