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FBXO24 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11008c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O75426
Other Accession	Q9D417, Q4R327, NP_001156971.1, NP_277041.1, NP_036304.2
Reactivity	Human, Mouse
Predicted	Monkey, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25723
Calculated MW	64889
Antigen Region	118-145

Additional Information

Gene ID	26261
Other Names	F-box only protein 24, FBXO24, FBX24
Target/Specificity	This FBXO24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-145 amino acids from the Central region of human FBXO24.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	FBXO24 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FBXO24
Synonyms	FBX24

Function	Substrate recognition component of an SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Specifically recognizes the deacetylated form of nucleoside diphosphate kinase A/NME1 and targets it for ubiquitin-mediated degradation (PubMed:25582197). Functions as a key regulator of cell proliferation by targeting PRMT6 for ubiquitination and proteasomal degradation, leading to cell cycle inhibition (PubMed:32828318). Also mediates 'Lys-6'-linked polyubiquitination of the mitochondrial S- adenosylmethionine transporter SLC25A26, targeting it for degradation and thereby maintaining mitochondrial function during spermiogenesis (By similarity). Promotes ubiquitination and degradation of mitochondrial aspartyl-tRNA synthetase DARS2, contributing to immunosuppressive activity (PubMed:39039092). In the nucleus, targets FOXK2 for ubiquitin-mediated degradation, a process that critically modulates mitochondrial respiration and cellular bioenergetics in lung epithelial cells (PubMed:38735474).
Cellular Location	Mitochondrion. Nucleus

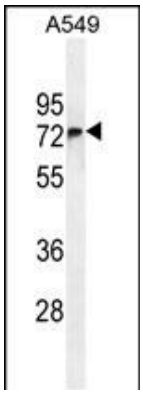
Background

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 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 encoded by this gene belongs to the Fbxs class. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

References

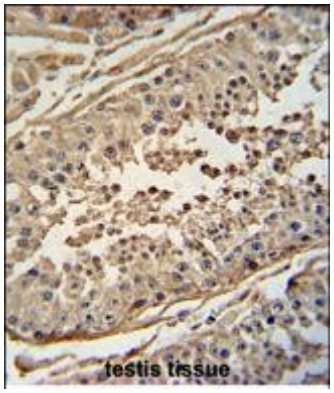
Winston, J.T., et al. Curr. Biol. 9(20):1180-1182(1999)
Cenciarelli, C., et al. Curr. Biol. 9(20):1177-1179(1999)

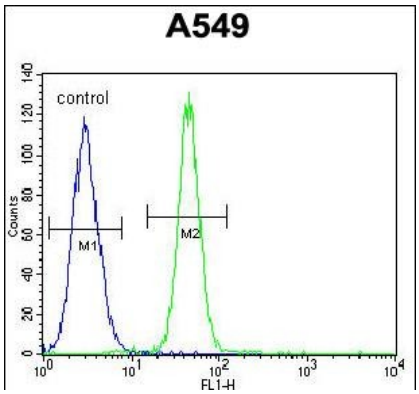
Images



FBXO24 Antibody (Center) (Cat. #AP11008c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the FBXO24 antibody detected the FBXO24 protein (arrow).

FBXO24 antibody (Center) (Cat. #AP11008c) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FBXO24 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.





FBXO24 Antibody (Center) (Cat. #AP11008c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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