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FBXO4 Rabbit pAb

Catalog # AP96960

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UKT5
Other Accession	Q9UKT5
Predicted	Rat, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44136
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FBXO4
Epitope Specificity	101-200/387
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 F-box domain.
SUBUNIT	Homodimer. Directly interacts with SKP1 and CUL1. Part of the SCF (SKP1-CUL1-F-box) E3 ubiquitin-protein ligase complex SCF(FBXO4) formed of CUL1, SKP1, RBX1 and FBXO4. Interacts with TERF1. This interaction is prevented in the presence of GNL3L. Identified in a complex with CRYAB and CCND1.
Post-translational modifications	Phosphorylation at Ser-12 varies during the cell cycle. It is low in resting cells and high in the S phase and the G2/M phase of the cell cycle. Phosphorylation is decreased during late G1 phase (By similarity). Phosphorylation at Ser-12 promotes homodimerization and is necessary for optimal ubiquitin ligase activity towards CCND1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FBXO4 is a substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. It probably recognizes and binds to phosphorylated target proteins. It recognizes TERF1 and promotes its ubiquitination together with UBE2D1.

Additional Information

Gene ID	26272
Other Names	FBX4; 1700096C12Rik; FBX4_BOVIN; FBXO4; FBX4_HUMAN; FBX4_MOUSE; F-box protein 4; F-box only protein 4
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}.

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