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FBXO9 Rabbit pAb

Catalog # AP97337

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UK97
Other Accession	Q9UK97
Predicted	Rat, Pig, Chimpanzee, Human, Mouse, Rabbit, Zebrafish, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52329
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FBX09
Epitope Specificity	301-400/447
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. Contains 1 TPR repeat.
SUBUNIT	Part of the SCF (SKP1-CUL1-F-box) E3 ubiquitin-protein ligase complex SCF(FBXO9) composed of CUL1, SKP1, RBX1 and FBXO9. Interacts with TTI1 and TELO2; when TTI1 and TELO2 are phosphorylated by CK2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. Alternative splicing of this gene generates at least 3 transcript variants diverging at the 5' terminus. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	26268
Other Names	FBX9; NY-REN-57; VCIA1; dJ341E18.2; 9030401P18Rik; wu:fc79g12; zgc:56212; zgc:77654; FBX9_BOVIN; FBXO9; FBX9_HUMAN; Cross-immune reaction antigen 1; Renal carcinoma antigen NY-REN-57; FBX9_MOUSE; FBX9_RAT; Q6DG26_DANRE; FBX9_DANRE; F-box protein 9; F-box only protein 9
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	FBXO9
Synonyms	FBX9, VCIA1
Function	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 and plays a role in several biological processes such as cell cycle, cell proliferation, or maintenance of chromosome stability (PubMed:23263282, PubMed:34480022). Ubiquitinates mTORC1-bound TTI1 and TELO2 when they are phosphorylated by CK2 following growth factor deprivation, leading to their degradation. In contrast, does not mediate ubiquitination of TTI1 and TELO2 when they are part of the mTORC2 complex. As a consequence, mTORC1 is inactivated to restrain cell growth and protein translation, while mTORC2 is the activated due to the relief of feedback inhibition by mTORC1 (PubMed:23263282). Plays a role in maintaining epithelial cell survival by regulating the turn- over of chromatin modulator PRMT4 through ubiquitination and degradation by the proteasomal pathway (PubMed:34480022). Regulates also PPARgamma stability by facilitating PPARgamma/PPARG ubiquitination and thereby plays a role in adipocyte differentiation (By similarity).
Cellular Location	Cytoplasm.

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