



Rabbit Anti-FBXO9 antibody

SL13165R

Product Name:	FBXO9
Chinese Name:	F-box蛋白9抗体
Alias:	Cross-immune reaction antigen 1; dJ341E18.2; DKFZp434C0118; F-box only protein 9; Fbp24; FBX9; FBX9_HUMAN; Fbxo9; KIAA0936; NY REN 57; OTTHUMP00000016628; OTTHUMP00000016629; OTTHUMP00000214588; Renal carcinoma antigen NY-REN-57; VCIA1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,Chimpanzee,Xenopus laevis
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	52kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FBX09:301-400/447
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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].

Function:

Substrate recognition component of a (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of TTI1 and TELO2 in a CK2-dependent manner, thereby directly regulating mTOR signaling. SCF(FBXO9) recognizes and binds mTORC1-bound TTI1 and TELO2 when they are phosphorylated by CK2 following growth factor deprivation, leading to their degradation. In contrast, the SCF(FBXO9) 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 activated due to the relief of feedback inhibition by mTORC1.

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.

Subcellular Location:

Cytoplasm.

Similarity:

Contains 1 F-box domain.
Contains 1 TPR repeat.

SWISS:

Q9UK97

Gene ID:

26268

Database links:

[Entrez Gene: 421895](#)Chicken

[Entrez Gene: 511798](#)Cow

[Entrez Gene: 26268](#)Human

[Entrez Gene: 71538](#)Mouse

[Entrez Gene: 300849](#)Rat

[Entrez Gene: 325469](#)Zebrafish

[Oimim: 609091](#)Human

[SwissProt: Q3ZBT2](#)Cow

[SwissProt: Q9UK97](#)Human

[SwissProt: Q8BK06](#)Mouse

[SwissProt: Q5U2X1](#)Rat

[SwissProt: Q6DG26](#)Zebrafish

[SwissProt: Q6P3K3](#)Zebrafish

Important Note:

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