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FBXO42 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12860

Product Information

Application	WB
Primary Accession	Q6P3S6
Other Accession	NM_018994, NP_061867
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse, Rat, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77839

Additional Information

Gene ID	54455
Alias Symbol	Fbx42, KIAA1332, JFK
Other Names	F-box only protein 42, Just one F-box and Kelch domain-containing protein, FBXO42, FBX42, JFK, KIAA1332
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-FBXO42 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	FBXO42 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FBXO42
Synonyms	FBX42, JFK, KIAA1332
Function	Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex. Required for bipolar spindle formation during mitosis (PubMed:33539788). Recognizes p53/TP53 phosphorylated by CSN-associated kinase, promoting its polyubiquitination and proteasomal degradation (PubMed:19509332, PubMed:21127074, PubMed:39134694). Positively regulates the Notch signaling pathway through 'Lys-63'-linked polyubiquitination of the transcriptional effector RBPJ, stabilizing its chromatin association and potentiating transcriptional activation of Notch

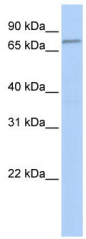
target genes (PubMed:36129980). Mediates 'Lys-48'-linked polyubiquitination and proteasomal degradation of components of the PP4 phosphatase complex, including PP4C, PP4R2, PP4R3A and PP4R3B, thereby restraining PP4 phosphatase activity and ensuring proper DNA damage response signaling (PubMed:41484364). Collaborates with CCDC6 to promote polyubiquitination and proteasomal degradation of the catalytic subunit PP2AC (PubMed:41986709). Recognizes ACAA2, promoting its ubiquitination and proteasomal degradation in hepatocytes, thereby attenuating fatty acid beta-oxidation; this activity is negatively regulated by CAND1, which prevents assembly of the SCF(FBXO42)-ACAA2 degradation complex (By similarity).

Cellular Location Nucleus.

References

Gregory,S.G.,(2006)Nature441(7091),315-321ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images



WB Suggested Anti-FBXO42 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Human brain

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