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FBXO7 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12223

Product Information

Application	WB, IP
Primary Accession	Q9Y3I1
Other Accession	NM_012179, NP_036311
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58503

Additional Information

Gene ID	25793
Alias Symbol	DKFZp686B08113, FBX, FBX07, FBX7, PKPS, PARK15
Other Names	F-box only protein 7, FBXO7, FBX7
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-FBXO7 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	FBXO7 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FBXO7
Synonyms	FBX7
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:15145941, PubMed:34791250). Recognizes and ubiquitinates BIRC2 and the cell cycle regulator DLGAP5 (PubMed:15145941, PubMed:16510124, PubMed:22212761). Plays a role downstream of PINK1 in the clearance of damaged mitochondria via selective autophagy (mitophagy) by targeting

PRKN to dysfunctional depolarized mitochondria. Promotes MFN1 ubiquitination. Mediates the ubiquitination and proteasomal degradation of UXT isoform 2, thereby impairing the NF-kappa-B signaling pathway (PubMed:33010352). Inhibits NF-kappa-B pathway also by promoting the ubiquitination of TRAF2 (PubMed:22212761). Affects the assembly state and activity of the proteasome in the cells including neurons by ubiquitinating the proteasomal subunit PSMA2 via 'Lys-63'-linked polyubiquitin chains (By similarity). Promotes 'Lys-48'-linked polyubiquitination SIRT7, leading to the hydrogen peroxide-induced cell death (PubMed:36646384).

Cellular Location

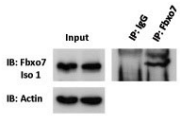
Cytoplasm. Nucleus Mitochondrion. Cytoplasm, cytosol. Note=Predominantly cytoplasmic (PubMed:16096642). A minor proportion is detected in the nucleus (PubMed:16096642). Relocates from the cytosol to depolarized mitochondria (PubMed:23933751).

References

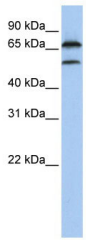
Chang,Y.F.,(2006)Biochem.Biophys.Res.Commun.342(4),1022-1026ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images

Immunoprecipitation -- 5ug antibody

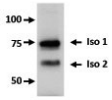


Legend
MW of isoform 1 ~75kDa



WB Suggested Anti-FBXO7 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:1562500
Positive Control: MCF7 cell lysate
FBXO7 is supported by BioGPS gene expression data to be expressed in MCF7

FBXO7 antibody - middle region validated by WB using U2OS cells at 0.5µg/ml.



Legend
Antibody binds to both isoforms of FBXO7

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