

# FBXO7 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI12223

#### **Product Information**

Application WB, IP Primary Accession Q9Y3I1

Other Accession <u>NM 012179</u>, <u>NP 036311</u>

**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: <u>22212761</u>). 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**

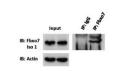
Cytoplasm. Nucleus Mitochondrion. Cytoplasm, cytosol. Note=Predominantly cytoplasmic (PubMed:16096642). A minor proportion is detected in the nucleus (PubMed:16096642). Relocates from the cytosol to depolarized mitochondria (PubMed:23933751).

### References

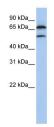
Chang, Y.F., (2006) Biochem. Biophys. Res. Commun. 342(4), 1022-1026 Reconstitution and Storage: For short termus e, storeat 2-8 Cupto 1 week. For long terms to rage, storeat 2-20 Cinsmall aliquots to prevent freeze-thaw cycles.

## **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 0.5 $\mu$ g/ml.



Legend
Antibody binds to both isoforms of EBXO7

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