

FBXO7 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12223**Specification**

FBXO7 antibody - middle region - Product Information

Application	WB, IP
Primary Accession	O9Y3I1
Other Accession	NM_012179 , NP_036311
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58kDa KDa

FBXO7 antibody - middle region - Additional Information**Gene ID** 25793**Alias Symbol** DKFZp686B08113, FBX, FBXO7, 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.

FBXO7 antibody - middle region - 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:<a

[15145941](http://www.uniprot.org/citations/15145941), PubMed: [34791250](http://www.uniprot.org/citations/34791250)). Recognizes and ubiquitinates BIRC2 and the cell cycle regulator DLGAP5 (PubMed: [15145941](http://www.uniprot.org/citations/15145941), PubMed: [16510124](http://www.uniprot.org/citations/16510124), PubMed: [22212761](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/33010352)). Inhibits NF-kappa-B pathway also by promoting the ubiquitination of TRAF2 (PubMed: [22212761](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/36646384)).

Cellular Location

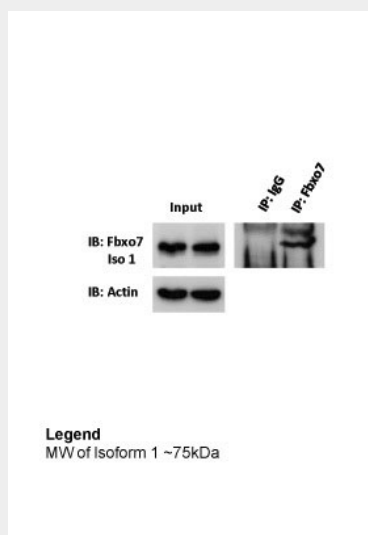
Cytoplasm. Nucleus Mitochondrion. Cytoplasm, cytosol. Note=Predominantly cytoplasmic (PubMed:16096642). A minor proportion is detected in the nucleus (PubMed:16096642). Relocates from the cytosol to depolarized mitochondria (PubMed:23933751).

FBXO7 antibody - middle region - Protocols

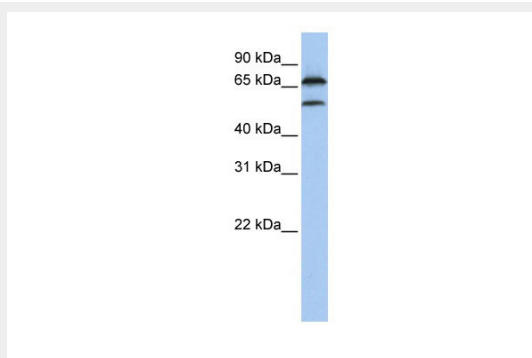
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FBXO7 antibody - middle region - Images



Immunoprecipitation -- 5ug antibody

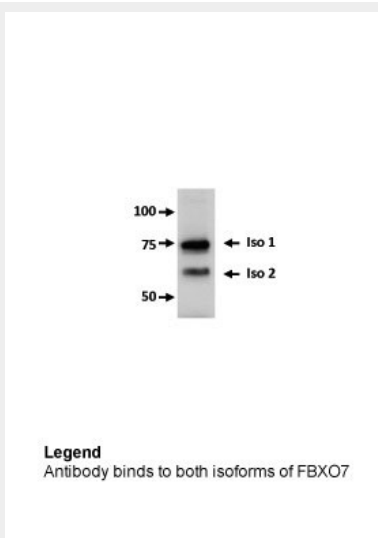


WB Suggested Anti-FBXO7 Antibody Titration: 0.2-1 µg/ml

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.

FBXO7 antibody - middle region - References

Chang, Y.F., (2006) Biochem. Biophys. Res. Commun. 342(4), 1022-1026. Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.