

FBX22 Antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI16151**Specification**

FBX22 Antibody - middle region - Product Information

Application	WB
Primary Accession	Q8NEZ5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44kDa KDa

FBX22 Antibody - middle region - Additional Information**Gene ID** 26263**Alias Symbol** **FBXO22, FBX22,**
Other Names
F-box only protein 22, F-box protein FBX22p44, FBXO22, FBX22**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & StorageAdd 50 μ l of distilled water. Final Anti-FBX22 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**

FBX22 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

FBX22 Antibody - middle region - Protein Information**Name** FBXO22**Synonyms** FBX22**Function**

Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex that is implicated in the control of various cellular processes such as cell cycle control, transcriptional regulation, DNA damage repair, and apoptosis. Promotes the proteasome-dependent degradation of key sarcomeric proteins, such as alpha-actinin (ACTN2) and filamin-C (FLNC), essential for maintenance of normal contractile function. Acts as a key regulator of histone methylation marks namely H3K9 and H3K36 methylation through the regulation of histone demethylase KDM4A protein levels (PubMed:21768309). In complex with KDM4A, regulates also the abundance of TP53 by targeting methylated TP53 for degradation

at the late senescent stage (PubMed:26868148). Under oxidative stress, promotes the ubiquitination and degradation of BACH1. Mechanistically, reactive oxygen species (ROS) covalently modify cysteine residues on the bZIP domain of BACH1, leading to its release from chromatin and making it accessible to FBXO22 (PubMed:39504958). Upon amino acid depletion, mediates 'Lys-27'-linked ubiquitination of MTOR and thereby inhibits substrate recruitment to mTORC1 (PubMed:37979583). Inhibits also SARS- CoV-2 replication by inducing NSP5 degradation (PubMed:39223933).

Cellular Location

Cytoplasm. Nucleus. Cytoplasm, myofibril, sarcomere, Z line. Note=Amino acid depletion lead to a time-dependent increase of FBXO22 in the cytoplasm.

Tissue Location

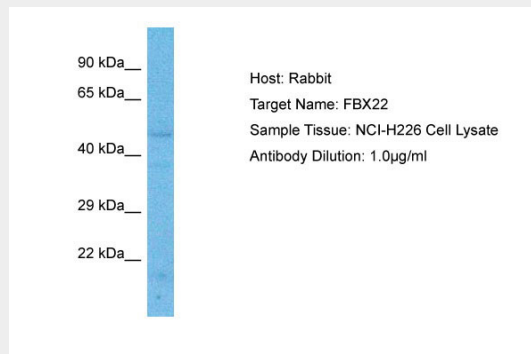
Predominantly expressed in liver, also enriched in cardiac muscle.

FBX22 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](#)

FBX22 Antibody - middle region - Images



Host: Rabbit
Target Name: FBX22
Sample Tissue: NCI-H226 Whole Cell lysates
Antibody Dilution: 1.0µg/ml

FBX22 Antibody - middle region - Background

Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex. Promotes the proteasome-dependent degradation of key sarcomeric proteins, such as alpha-actinin (ACTN2) and filamin-C (FLNC), essential for maintenance of normal contractile

function.

FBX22 Antibody - middle region - References

Tan P., et al. Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Zody M.C., et al. Nature 440:671-675(2006).
Cenciarelli C., et al. Curr. Biol. 9:1177-1179(1999).
Gauci S., et al. Anal. Chem. 81:4493-4501(2009).