

**FBXO22 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18732b****Specification**

---

**FBXO22 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8NEZ5</a>
Other Accession	<a href="#">Q78JE5</a> , <a href="#">NP_036302.1</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44508
Antigen Region	320-347

**FBXO22 Antibody (C-term) - Additional Information****Gene ID** 26263**Other Names**

F-box only protein 22, F-box protein FBX22p44, FBXO22, FBX22

**Target/Specificity**

This FBXO22 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 320-347 amino acids from the C-terminal region of human FBXO22.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

FBXO22 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**FBXO22 Antibody (C-term) - 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, also regulates 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](#)). Also inhibits 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

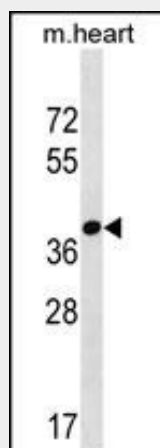
Predominantly expressed in liver, also enriched in cardiac muscle.

#### FBXO22 Antibody (C-term) - 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](#)

#### FBXO22 Antibody (C-term) - Images



FBXO22 Antibody (C-term)(Cat. #AP18732b) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the FBXO22 antibody detected the FBXO22 protein (arrow).

**FBXO22 Antibody (C-term) - Background**

This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of the ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbxs class. Two transcript variants encoding different isoforms exist for this gene.

**FBXO22 Antibody (C-term) - References**

Borziak, K., et al. Bioinformatics 23(19):2518-2521(2007)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Winston, J.T., et al. Curr. Biol. 9(20):1180-1182(1999)  
Cenciarelli, C., et al. Curr. Biol. 9(20):1177-1179(1999)