

**CCNF Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18322c**

**Specification**

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**CCNF Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P41002</a>
Other Accession	<a href="#">NP_001752.2</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	87640
Antigen Region	496-524

**CCNF Antibody (Center) - Additional Information**

**Gene ID** 899

**Other Names**

Cyclin-F, F-box only protein 1, CCNF, FBX1, FBXO1

**Target/Specificity**

This CCNF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 496-524 amino acids from the Central region of human CCNF.

**Dilution**

WB~~1:1000

**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**

CCNF Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CCNF Antibody (Center) - Protein Information**

**Name** CCNF

**Synonyms** FBX1, FBXO1

**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 (PubMed:[20596027](#), PubMed:[22632967](#), PubMed:[27653696](#), PubMed:[26818844](#), PubMed:[27080313](#), PubMed:[28852778](#)). The SCF(CCNF) E3 ubiquitin-protein ligase complex is an integral component of the ubiquitin proteasome system (UPS) and links proteasome degradation to the cell cycle (PubMed:[8706131](#), PubMed:[20596027](#), PubMed:[27653696](#), PubMed:[26818844](#)). Mediates the substrate recognition and the proteasomal degradation of various target proteins involved in the regulation of cell cycle progression and in the maintenance of genome stability (PubMed:[20596027](#), PubMed:[22632967](#), PubMed:[27653696](#), PubMed:[26818844](#)). Mediates the ubiquitination and proteasomal degradation of CP110 during G2 phase, thereby acting as an inhibitor of centrosome reduplication (PubMed:[20596027](#)). In G2, mediates the ubiquitination and subsequent degradation of ribonucleotide reductase RRM2, thereby maintaining a balanced pool of dNTPs and genome integrity (PubMed:[22632967](#)). In G2, mediates the ubiquitination and proteasomal degradation of CDC6, thereby suppressing DNA re-replication and preventing genome instability (PubMed:[26818844](#)). Involved in the ubiquitination and degradation of the substrate adapter CDH1 of the anaphase-promoting complex (APC/C), thereby acting as an antagonist of APC/C in regulating G1 progression and S phase entry (PubMed:[27653696](#)). May play a role in the G2 cell cycle checkpoint control after DNA damage, possibly by promoting the ubiquitination of MYBL2/BMYB (PubMed:[25557911](#)).

#### **Cellular Location**

Nucleus. Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Note=Localization to the centrosome is rare in S phase cells and increases in G2 cells. Localizes to both the mother and daughter centrioles. Localization to centrosomes is not dependent on CP110 Localizes to the nucleus in G2 phase.

#### **Tissue Location**

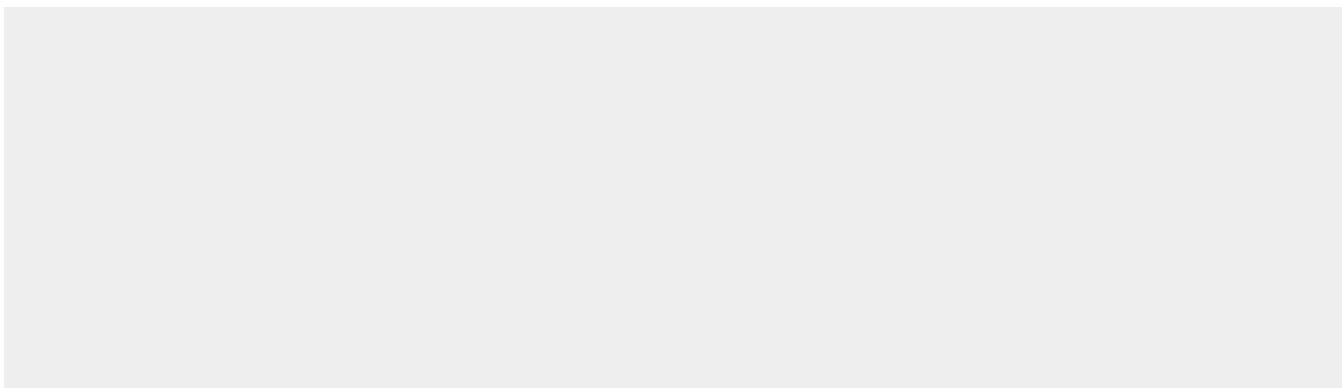
Widely expressed, with expression detected in the heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

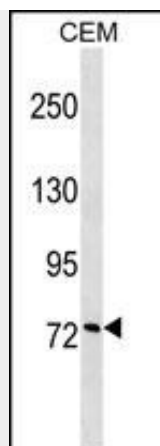
### **CCNF Antibody (Center) - Protocols**

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

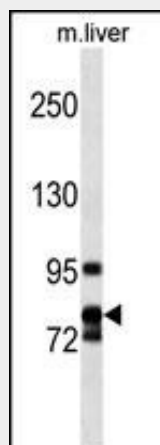
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CCNF Antibody (Center) - Images**





CCNF Antibody (Center) (Cat. #AP18322c) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the CCNF Antibody detected the CCNF protein (arrow).



CCNF Antibody (Center) (Cat. #AP18322c) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the CCNF Antibody detected the CCNF protein (arrow).

### CCNF Antibody (Center) - Background

This gene encodes a member of the cyclin family. Cyclins are important regulators of cell cycle transitions through their ability to bind and activate cyclin-dependent protein kinases. This member also belongs to 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 and it was one of the first proteins in which the F-box motif was identified.

### CCNF Antibody (Center) - References

D'Angiolella, V., et al. Nature 466(7302):138-142(2010)  
Fung, T.K., et al. J. Biol. Chem. 277(38):35140-35149(2002)  
Kong, M., et al. EMBO J. 19(6):1378-1388(2000)

Bai, C., et al. Cell 86(2):263-274(1996)

Bai, C., et al. EMBO J. 13(24):6087-6098(1994)