

**Cyclin F Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51053****Specification**

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**Cyclin F Antibody - Product Information**

Application	<b>WB, IHC-P, E</b>
Primary Accession	<a href="#">P41002</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>88 KDa</b>

**Cyclin F Antibody - Additional Information****Gene ID** 899**Other Names**

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

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Cyclin F. The exact sequence is proprietary.

**Dilution**

WB~~1:1000

IHC-P~~N/A

E~~N/A

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Cyclin F Antibody - 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](http://www.uniprot.org/citations/20596027), PubMed: [22632967](http://www.uniprot.org/citations/22632967), PubMed: [26818844](http://www.uniprot.org/citations/26818844), PubMed: [27080313](http://www.uniprot.org/citations/27080313))

target="\_blank">27080313</a>, PubMed:<a href="http://www.uniprot.org/citations/27653696" target="\_blank">27653696</a>, PubMed:<a href="http://www.uniprot.org/citations/28852778" target="\_blank">28852778</a>). 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:<a href="http://www.uniprot.org/citations/20596027" target="\_blank">20596027</a>, PubMed:<a href="http://www.uniprot.org/citations/26818844" target="\_blank">26818844</a>, PubMed:<a href="http://www.uniprot.org/citations/27653696" target="\_blank">27653696</a>, PubMed:<a href="http://www.uniprot.org/citations/8706131" target="\_blank">8706131</a>). 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:<a href="http://www.uniprot.org/citations/20596027" target="\_blank">20596027</a>, PubMed:<a href="http://www.uniprot.org/citations/22632967" target="\_blank">22632967</a>, PubMed:<a href="http://www.uniprot.org/citations/26818844" target="\_blank">26818844</a>, PubMed:<a href="http://www.uniprot.org/citations/27653696" target="\_blank">27653696</a>). Mediates the ubiquitination and proteasomal degradation of CP110 during G2 phase, thereby acting as an inhibitor of centrosome reduplication (PubMed:<a href="http://www.uniprot.org/citations/20596027" target="\_blank">20596027</a>). In G2, mediates the ubiquitination and subsequent degradation of ribonucleotide reductase RRM2, thereby maintaining a balanced pool of dNTPs and genome integrity (PubMed:<a href="http://www.uniprot.org/citations/22632967" target="\_blank">22632967</a>). In G2, mediates the ubiquitination and proteasomal degradation of CDC6, thereby suppressing DNA re-replication and preventing genome instability (PubMed:<a href="http://www.uniprot.org/citations/26818844" target="\_blank">26818844</a>). 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:<a href="http://www.uniprot.org/citations/27653696" target="\_blank">27653696</a>). May play a role in the G2 cell cycle checkpoint control after DNA damage, possibly by promoting the ubiquitination of MYBL2/BMYB (PubMed:<a href="http://www.uniprot.org/citations/25557911" target="\_blank">25557911</a>).

#### 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.

### Cyclin F Antibody - 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](#)

### Cyclin F Antibody - Images

### Cyclin F Antibody - Background

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 CP110 during G2 phase, thereby acting as an inhibitor of centrosome reduplication.

#### **Cyclin F Antibody - References**

- Bai C., et al. EMBO J. 13:6087-6098(1994).
- Kraus B., et al. Genomics 24:27-33(1994).
- Ota T., et al. Nat. Genet. 36:40-45(2004).
- Martin J., et al. Nature 432:988-994(2004).
- Bai C., et al. Cell 86:263-274(1996).