

# Cyclin F Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51053

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P41002</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87640

## Additional Information

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Gene ID	899
Other Names	Cyclin-F, F-box only protein 1, CCNF, FBX1, FBXO1
Dilution	WB~~1:1000 IHC-P~~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

## Protein Information

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Name	CCNF
Synonyms	FBX1, FBXO1
Function	<p>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:<a href="#">20596027</a>, PubMed:<a href="#">22632967</a>, PubMed:<a href="#">26818844</a>, PubMed:<a href="#">27080313</a>, PubMed:<a href="#">27653696</a>, PubMed:<a href="#">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="#">20596027</a>, PubMed:<a href="#">26818844</a>, PubMed:<a href="#">27653696</a>, PubMed:<a href="#">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="#">20596027</a>, PubMed:<a href="#">22632967</a>, PubMed:<a href="#">26818844</a>, PubMed:<a href="#">27653696</a>). Mediates the ubiquitination and proteasomal degradation of CP110 during G2 phase, thereby acting as an inhibitor of centrosome reduplication (PubMed:<a href="#">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="#">22632967</a>). In G2, mediates the ubiquitination and proteasomal</p>

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.

## Background

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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.

## References

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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).

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