

**APC4 Antibody**  
**Catalog # ASC11116****Specification****APC4 Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">Q9UJX5</a>
Other Accession	<a href="#">Q9UJX5</a> , <a href="#">205371737</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	APC4 antibody can be used for detection of APC4 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

**APC4 Antibody - Additional Information**

Gene ID	29945
Target/Specificity	
ANAPC4;	

**Reconstitution & Storage**

APC4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

APC4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**APC4 Antibody - Protein Information**

**Name** ANAPC4

**Synonyms** APC4

**Function**

Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle (PubMed:<a href="http://www.uniprot.org/citations/18485873" target="\_blank">18485873</a>). The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (PubMed:<a href="http://www.uniprot.org/citations/18485873" target="\_blank">18485873</a>). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed:<a href="http://www.uniprot.org/citations/29033132" target="\_blank">29033132</a>).

target="\_blank">29033132</a>).

### Cellular Location

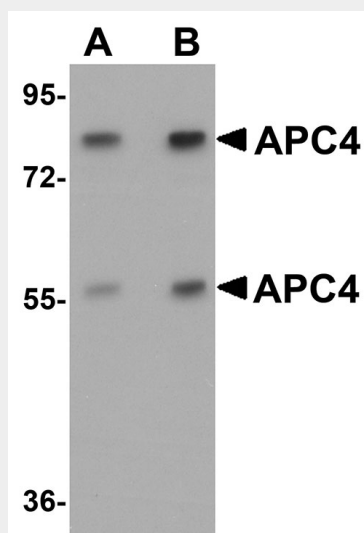
Nucleus.

### APC4 Antibody - Protocols

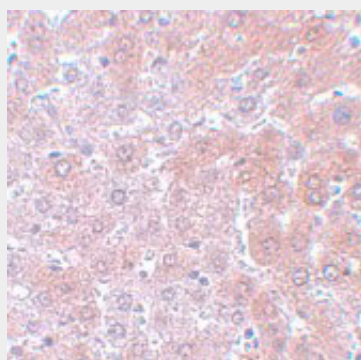
Provided below are standard protocols that you may find useful for product applications.

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

### APC4 Antibody - Images



Western blot analysis of APC4 in mouse liver tissue lysate with APC4 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of APC4 in rat liver tissue with APC4 antibody at 5 µg/mL.

### APC4 Antibody - Background

**APC4 Antibody:** Cell cycle regulated protein ubiquitination and degradation within subcellular domains is thought to be essential for the normal progression of mitosis. APC4 is a highly conserved component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. APC/C is responsible for degrading anaphase inhibitors, mitotic cyclins, and spindle-associated proteins ensuring that events of mitosis take place in proper sequence. The individual APC/C components mRNA and protein levels are expressed at approximately the same levels in most tissues and cell lines, suggesting that they perform their functions as part of a complex. While little is known of APC4, it is thought that APC4 associates with other APC/C components APC1, APC5, and CDC23 interdependently, such that loss of any one subunit reduces binding between the remaining three.

#### **APC4 Antibody - References**

JM Peters. The anaphase promoting complex/cyclosome: a machine designed to destroy. Nat. Rev. Mol. Cell Biol.2006; 7:644-56.  
Jorgensen PM, Graslund S, Betz R, et al. Characterisation of the human APC1, the largest subunit of the anaphase-promoting complex. Gene2001; 262:51-9.  
Thronton BR, Ng TM, Matyskiela ME, et al. An architectural map of the anaphase-promoting complex. Genes Dev.2006; 20:449-60.