

### **APC3 Antibody**

Catalog # ASC11115

# **Specification**

### **APC3 Antibody - Product Information**

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype
Application Notes

**WB, IHC**<u>P30260</u>
NP 00124

NP\_001247, 167466175 Human, Mouse, Rat Rabbit

Rabbit Polyclonal

IgG

APC3 antibody can be used for detection of

APC3 by Western blot at  $1 - 2 \mu g/mL$ .

Antibody can also be used for

immunohistochemistry starting at 5

μg/mL.

### **APC3 Antibody - Additional Information**

Gene ID
Target/Specificity

CDC27;

996

### **Reconstitution & Storage**

APC3 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**

APC3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### **APC3 Antibody - Protein Information**

Name CDC27

Synonyms ANAPC3, D0S1430E, D17S978E

### **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>).

**Cellular Location** 

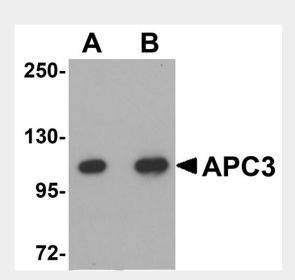
Nucleus. Cytoplasm, cytoskeleton, spindle

## **APC3 Antibody - Protocols**

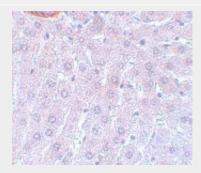
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **APC3 Antibody - Images**



Western blot analysis of APC3 in mouse liver tissue lysate with APC3 antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunohistochemistry of APC3 in rat liver tissue with APC3 antibody at 5 μg/mL.

## **APC3 Antibody - Background**

APC3 Antibody: Cell cycle regulated protein ubiquitination and degradation within subcellular domains is thought to be essential for the normal progression of mitosis. APC3, also known as





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CDC27, a highly conserved component of the anaphase promoting complex/cyclosome (APC/C), is 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. APC3 contains a tetratricopeptide repeat (TPR) region and interacts with mitotic checkpoint proteins including Mad2, p55CDC and BUBR1.

# **APC3 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.