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APC13 Antibody
Catalog # ASC11123

Specification

APC13 Antibody - Product Information

Application	**WB, IF, E**
Primary Accession	Q9BS18
Other Accession	NP_056206, 25847
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**APC13 antibody can be used for detection of APC13 by Western blot at 1 µg/mL. For immunofluorescence start at 20 µg/mL.**

APC13 Antibody - Additional Information

Gene ID **25847**

Target/Specificity
APC13 antibody was raised against a 17 amino acid synthetic peptide near the center of human APC13.

The immunogen is located within the last 50 amino acids of APC13.

Reconstitution & Storage
APC13 antibody can be stored at 4℃ for three months and -20℃, 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
APC13 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

APC13 Antibody - Protein Information

Name ANAPC13

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:15060174, PubMed:18485873). 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:15060174, PubMed:18485873). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed:29033132).

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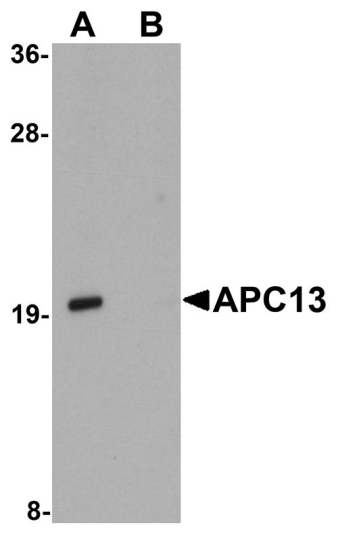
Cellular Location
Nucleus.

APC13 Antibody - Protocols

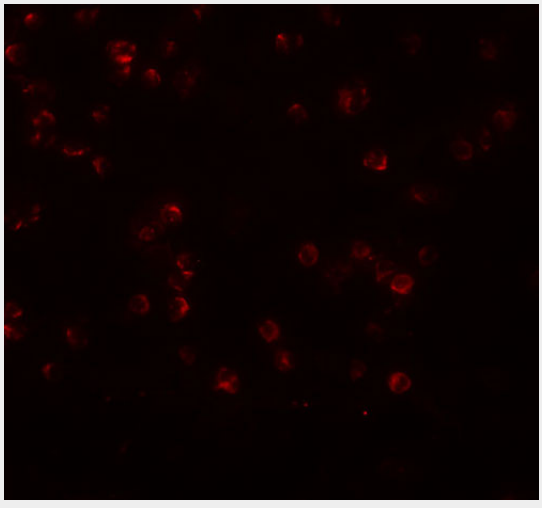
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

APC13 Antibody - Images



Western blot analysis of APC13 in Jurkat cell tissue lysate with APC13 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



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Immunofluorescence of APC13 in Jurkat cells with APC13 antibody at 20 µg/mL.

APC13 Antibody - Background

APC13 Antibody: Cell cycle regulated protein ubiquitination and degradation within subcellular domains is thought to be essential for the normal progression of mitosis. APC13 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. APC13 promotes the stable association of APC3/Cdc27 and APC6/Cdc16 with the APC/C.

APC13 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.
Schwickart M, Havlis J, Habermann B, et al. Swm1/Apc13 is an evolutionarily conserved subunit of the anaphase-promoting complex stabilizing the association of Cdc16 and Cdc27. Mol. Cell. Biol.2004; 24:3562-76.