

APC11 Antibody
Catalog # ASC11122**Specification****APC11 Antibody - Product Information**

Application	WB, IF, E
Primary Accession	Q9NYG5
Other Accession	NP_001002244 , 51529
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	APC11 antibody can be used for detection of APC11 by Western blot at 1 µg/mL. For immunofluorescence start at 20 µg/mL.

APC11 Antibody - Additional InformationGene ID **51529****Target/Specificity**

APC11 antibody was raised against an 18 amino acid synthetic peptide near the center of human APC11. The immunogen is located within amino acids 70 - 120 of APC11.

Reconstitution & Storage

APC11 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

APC11 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

APC11 Antibody - Protein Information**Name** ANAPC11**Function**

Together with the cullin protein ANAPC2, constitutes the catalytic 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: [11739784](http://www.uniprot.org/citations/11739784), PubMed: [18485873](http://www.uniprot.org/citations/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: [11739784](http://www.uniprot.org/citations/11739784), PubMed: [18485873](http://www.uniprot.org/citations/18485873)). The APC/C complex catalyzes assembly of branched 'Lys-11'-'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed: [29033132](http://www.uniprot.org/citations/29033132))

target="_blank">29033132). May recruit the E2 ubiquitin-conjugating enzymes to the complex (PubMed:11739784, PubMed:18485873).

Cellular Location

Cytoplasm. Nucleus

Tissue Location

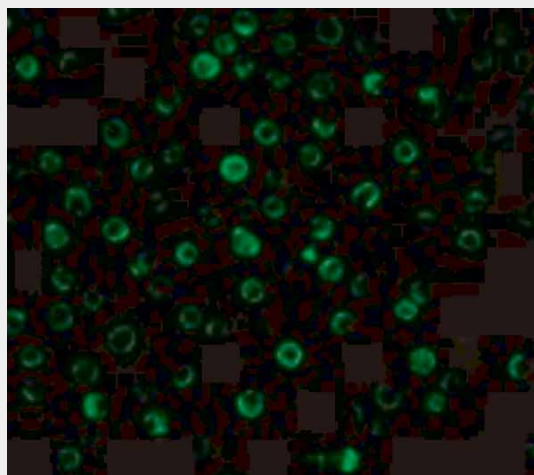
Expressed at high levels in skeletal muscle and heart; in moderate levels in brain, kidney, and liver; and at low levels in colon, thymus, spleen, small intestine, placenta, lung and peripheral blood leukocyte.

APC11 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](#)

APC11 Antibody - Images



Immunofluorescence of IL-22 receptor in HepG2 cells with IL-22 receptor antibody at 10 µg/mL.

APC11 Antibody - Background

APC11 Antibody: Cell cycle regulated protein ubiquitination and degradation within subcellular domains is thought to be essential for the normal progression of mitosis. APC11 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. APC11, together with APC2 and Ubc4, form the minimal APC ubiquitin ligase module.

APC11 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.

Tan Z, Li B, Bharadwaj R, et al. APC Cullin protein and APC RING protein comprise the minimal ubiquitin ligase module of the anaphase-promoting complex. Mol. Biol. Cell2001; 12:3839-51.