

# ANAPC5 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP10974c

## Product Information

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<b>Application</b>	WB, FC, E
<b>Primary Accession</b>	<a href="#">Q9UJX4</a>
<b>Other Accession</b>	<a href="#">NP_057321.2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB24572
<b>Calculated MW</b>	85077
<b>Antigen Region</b>	156-185

## Additional Information

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<b>Gene ID</b>	51433
<b>Other Names</b>	Anaphase-promoting complex subunit 5, APC5, Cyclosome subunit 5, ANAPC5, APC5
<b>Target/Specificity</b>	This ANAPC5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-185 amino acids from the Central region of human ANAPC5.
<b>Dilution</b>	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	ANAPC5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ANAPC5
<b>Synonyms</b>	APC5
<b>Function</b>	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:[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:[18485873](#)). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed:[29033132](#)).

**Cellular Location** Nucleus. Cytoplasm, cytoskeleton, spindle

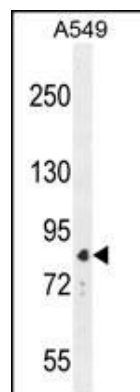
## Background

This gene encodes a tetratricopeptide repeat-containing component of the anaphase promoting complex/cyclosome (APC/C), a large E3 ubiquitin ligase that controls cell cycle progression by targeting a number of cell cycle regulators such as B-type cyclins for 26S proteasome-mediated degradation through ubiquitination. The encoded protein is required for the proper ubiquitination function of APC/C and for the interaction of APC/C with transcription coactivators. It also interacts with polyA binding protein and represses internal ribosome entry site-mediated translation. Multiple transcript variants encoding different isoforms have been found for this gene. These differences cause translation initiation at a downstream AUG and result in a shorter protein (isoform b), compared to isoform a.

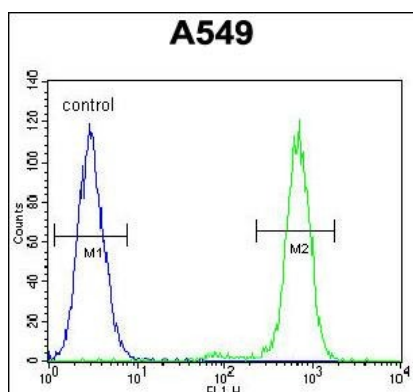
## References

- Wasch, R., et al. *Oncogene* 29(1):1-10(2010)  
Jin, L., et al. *Cell* 133(4):653-665(2008)  
Liu, J., et al. *Cancer Biol. Ther.* 5(7):760-762(2006)  
Dube, P., et al. *Mol. Cell* 20(6):867-879(2005)  
Turnell, A.S., et al. *Nature* 438(7068):690-695(2005)

## Images



ANAPC5 Antibody (Center) (Cat. #AP10974c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the ANAPC5 antibody detected the ANAPC5 protein (arrow).



ANAPC5 Antibody (Center) (Cat. #AP10974c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.