

**ANAPC2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21055a**

**Specification**

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**ANAPC2 Antibody (C-term) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IF, WB, IHC-P,E        |
| Primary Accession | <a href="#">O9UJX6</a> |
| Other Accession   | <a href="#">O8BZQ7</a> |
| Reactivity        | Human                  |
| Predicted         | Mouse                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 93828                  |
| Antigen Region    | 712-746                |

**ANAPC2 Antibody (C-term) - Additional Information**

**Gene ID** 29882

**Other Names**

Anaphase-promoting complex subunit 2, APC2, Cyclosome subunit 2, ANAPC2, APC2, KIAA1406

**Target/Specificity**

This ANAPC2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 712-746 amino acids from the C-terminal region of human ANAPC2.

**Dilution**

IF~~1:25

WB~~1:1000

IHC-P~~1:25

**Format**

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.

**Storage**

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.

**Precautions**

ANAPC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ANAPC2 Antibody (C-term) - Protein Information**

**Name** ANAPC2

### Synonyms APC2, KIAA1406

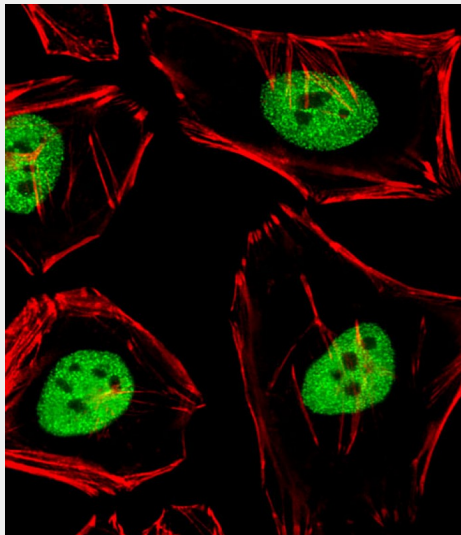
**Function** Together with the RING-H2 protein ANAPC11, constitutes the catalytic component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle (PubMed:[11739784](#), PubMed:[18485873](#)). 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:[11739784](#), PubMed:[18485873](#)). The APC/C complex catalyzes assembly of branched 'Lys-11'-/'Lys-48'-linked branched ubiquitin chains on target proteins (PubMed:[29033132](#)). The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons (By similarity). CDC20-APC/C-induced degradation of NEUROD2 drives presynaptic differentiation (By similarity).

### ANAPC2 Antibody (C-term) - Protocols

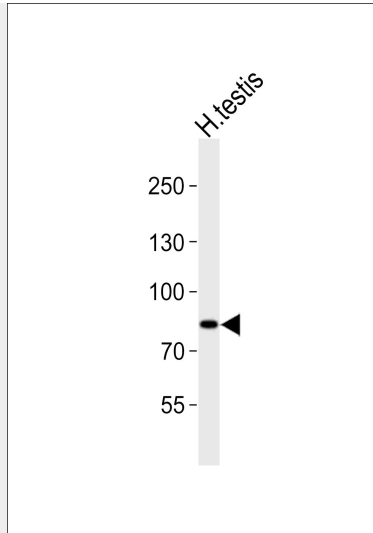
Provided below are standard protocols that you may find useful for product applications.

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

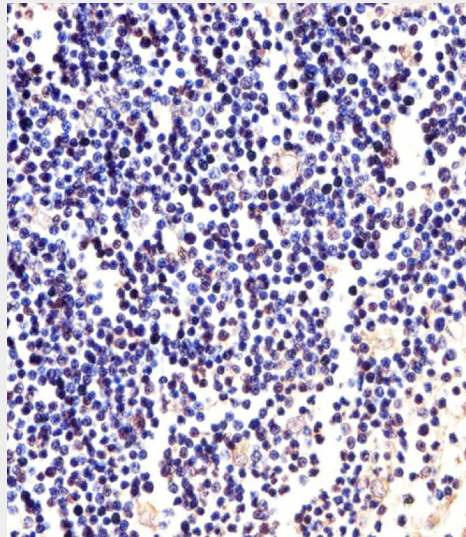
### ANAPC2 Antibody (C-term) - Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human Cervical epithelial adenocarcinoma cell line) cells labeling ANAPC2 with AP21055a at 1/25 dilution, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/400 dilution (green). Confocal image showing nuclear staining on HeLa cell line. Cytoplasmic actin is detected with Alexa Fluor® 555 conjugated with Phalloidin (OB16636430) at 1/100 dilution (red).



Western blot analysis of lysate from human testis tissue lysate, using ANAPC2 Antibody (C-term)(Cat. #AP21055a). AP21055a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



Immunohistochemical analysis of paraffin-embedded H. thymus section using ANAPC2 Antibody (C-term)(Cat#AP21055a). AP21055a was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

### **ANAPC2 Antibody (C-term) - Background**

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. 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. The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. CDC20-APC/C-induced degradation of NEUROD2 drives presynaptic differentiation.

### **ANAPC2 Antibody (C-term) - References**

Yu H.,et al.Science 279:1219-1222(1998).

Humphray S.J.,et al.Nature 429:369-374(2004).  
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