

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

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

Application	IHC-P, WB, IF,E
Primary Accession	<a href="#">Q9UJX6</a>
Other Accession	<a href="#">Q8BZQ7</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**

IHC-P~~1:25

WB~~1:1000

IF~~1:25

E~~Use at an assay dependent concentration.

**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**

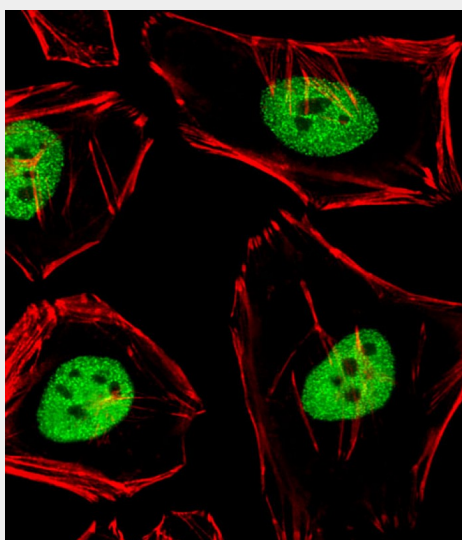
**Name** ANAPC2**Synonyms** APC2, KIAA1406

**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).

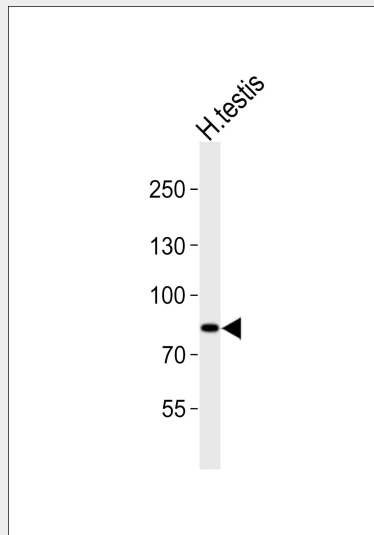
**ANAPC2 Antibody (C-term) - Protocols**

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

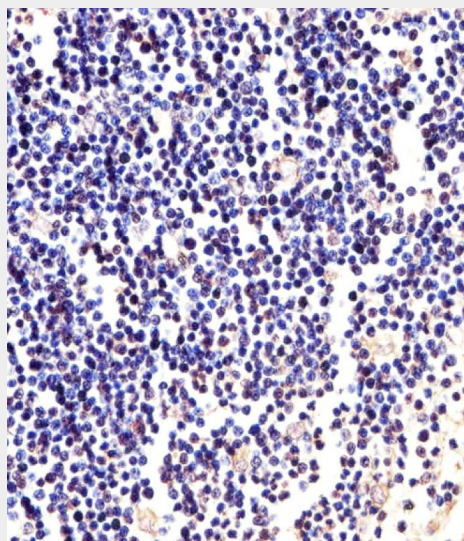
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**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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Tang Z.,et al.Mol. Biol. Cell 12:3839-3851(2001).