



Rabbit Anti-APC11 antibody

SL12484R

Product Name:	APC11
Chinese Name:	细胞周期后期促进蛋白亚基11抗体
Alias:	ANAPC 11; ANAPC11; Anaphase promoting complex subunit 11; Anaphase promoting complex subunit 11 homolog (yeast); Anaphase promoting complex subunit 11 homolog; Anaphase-promoting complex subunit 11; Apc 11; Apc 11p; APC11 anaphase promoting complex subunit 11 homolog (yeast); APC11 anaphase promoting complex subunit 11 homolog; APC11; APC11_HUMAN; Apc11p; Cyclosome subunit 11; Hepatocellular carcinoma associated RING finger protein; Hepatocellular carcinoma-associated RING finger protein; HSPC 214; HSPC214; MGC882; Yeast APC 11 homolog; Yeast APC11 homolog.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	10kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human APC11:1-84/84
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Comprising more than ten subunits, the anaphase-promoting complex (APC) acts in a cell-cycle dependent manner to promote the separation of sister chromatids during the transition between metaphase and anaphase in mitosis. APC, or cyclosome, accomplishes this progression through the ubiquitination of mitotic cyclins and other regulatory proteins that are targeted for destruction during cell division. APC is phosphorylated, and thus activated, by protein kinases Cdk1/cyclin B and polo-like kinase (Plk). APC is under tight control by a number of regulatory factors, including CDC20, CDH1 and MAD2. Specifically, CDC20 and CDH1 directly bind to APC and activates APC's cyclin-ubiquitination activity. In contrast, MAD2 inhibits APC by forming a ternary complex with CDC20 and APC; thus preventing APC activation. APC11 is a RING-H2 finger protein that allows for the synthesis of multiubiquitin chains in the presence of Ubiquitin carrier protein 4 (Ubc4) and ubiquitin conjugating enzyme (E2). In addition, a heterodimeric complex of either Ubc4 or UbcH10 with APC11 and APC2 catalyzes the ubiquitination of human securin and cyclin B1.

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. 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. May recruit the E2 ubiquitin-conjugating enzymes to the complex.

Subunit:

The APC/C is composed of at least 12 subunits. Interacts with the cullin domain of ANAPC2. Interacts with UBE2D2.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

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.

Post-translational modifications:

Auto-ubiquitinated.

Similarity:

Belongs to the RING-box family.
Contains 1 RING-type zinc finger.

SWISS:

Q9NYG5

Product Detail:

Gene ID:
51529

Database links:

[Entrez Gene: 51529](#)Human

[Entrez Gene: 66156](#)Mouse

[Entrez Gene: 498030](#)Rat

[Omim: 614534](#)Human

[SwissProt: Q9NYG5](#)Human

[SwissProt: Q9CPX9](#)Mouse

[Unigene: 534456](#)Human

[Unigene: 21645](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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