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ANAPC4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17878c

Product Information

Application	WB, E
Primary Accession	Q9UJX5
Other Accession	NP_037499.2
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22764
Calculated MW	92116
Antigen Region	638-664

Additional Information

Gene ID	29945
Other Names	Anaphase-promoting complex subunit 4, APC4, Cyclosome subunit 4, ANAPC4, APC4
Target/Specificity	This ANAPC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 638-664 amino acids from the Central region of human ANAPC4.
Dilution	WB~~1:1000 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	ANAPC4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANAPC4
Synonyms	APC4

Function	Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through the cell cycle (PubMed:18485873, PubMed:27120157, PubMed:27509861). APC/C 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). APC/C catalyzes assembly of branched 'Lys-11'-/'Lys- 48'-linked branched ubiquitin chains on target proteins (PubMed:29033132). APC/C is activated by CDC20 in the metaphase/anaphase transition of cell cycle, targeting the degradation of cyclin B and securin (PubMed:27120157, PubMed:27509861). APC/C is regulated by the mitotic checkpoint complex (MCC), which inhibits APC/C and delays chromosome segregation (PubMed:27509861).
Cellular Location	Nucleus.

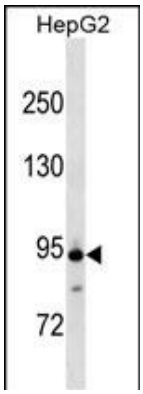
Background

A large protein complex, termed the anaphase-promoting complex (APC), or the cyclosome, promotes metaphase-anaphase transition by ubiquitinating its specific substrates such as mitotic cyclins and anaphase inhibitor, which are subsequently degraded by the 26S proteasome. Biochemical studies have shown that the vertebrate APC contains eight subunits. The composition of the APC is highly conserved in organisms from yeast to humans. The exact function of this gene product is not known. [provided by RefSeq].

References

Wasch, R., et al. Oncogene 29(1):1-10(2010)
Jin, L., et al. Cell 133(4):653-665(2008)
Nature 447(7145):661-678(2007)
Dube, P., et al. Mol. Cell 20(6):867-879(2005)
Listovsky, T., et al. EMBO J. 23(7):1619-1626(2004)

Images



ANAPC4 Antibody (Center) (Cat. #AP17878c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the ANAPC4 antibody detected the ANAPC4 protein (arrow).

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