ANAPC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ANAPC4, Polyclonal Antibody
Full Product Name	ANAPC4, ID (ANAPC4, APC4, Anaphase-promoting complex subunit 4, Cyclosome subunit 4) (MaxLight 750)
Product Gene Name	anti-ANAPC4 antibody
Product Synonym Names	ANAPC4; APC4; Anaphase-promoting complex subunit 4; Cyclosome subunit 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	92,216 Da
OMIM	606947
3D Structure	ModBase 3D Structure for Q9UJX5
Immunogen	ANAPC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 636-664 amino acids from the Central region of human ANAPC4.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-ANAPC4 antibody	Antibodies; Cell Division Cycle (CDC)
Applications Tested/Suitable for anti-ANAPC4 antibody	Western Blot (WB), FLISA
Application Notes for anti-ANAPC4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ANAPC4 antibody	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].
Product References and Citations for anti-ANAPC4 antibody	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).
Other Notes	Small volumes of anti-ANAPC4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ANAPC4 purchase	MBS6273431 is an antibody targeting ANAPC4. Also known as ANAPC4, ID (ANAPC4, APC4, Anaphase-promoting complex subunit 4, Cyclosome subunit 4) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANAPC4. It may not necessarily be applicable to this product.

NCBI GI #	41327749
NCBI GeneID	29945
NCBI Accession #	NP_037499.2
UniProt Primary Accession #	Q9UJX5
UniProt Secondary Accession #	Q6PCC6; Q9NSH6; A8K8H1; E9PCR4
UniProt Related Accession #	Q9UJX5
GenBank Nucleotide #	NM_013367.2
NCBI Official Full Name	anaphase-promoting complex subunit 4 isoform 2
NCBI Official Synonym Full Names	anaphase promoting complex subunit 4
NCBI Official Symbol	ANAPC4
NCBI Official Synonym Symbols	APC4
UniProt Protein Name	Anaphase-promoting complex subunit 4
UniProt Synonym Protein Names	Cyclosome subunit 4
UniProt Gene Name	ANAPC4
UniProt Synonym Gene Names	APC4; APC4
UniProt Entry Name	APC4_HUMAN
NCBI Protein Information	anaphase-promoting complex subunit 4; cyclosome subunit 4
NCBI Summary for ANAPC4	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
UniProt Comments for ANAPC4	APC4: 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. Belongs to the APC4 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 4p15.2 Cellular Component: nucleoplasm; anaphase-promoting complex; nucleus; cytosol Molecular Function: protein binding; ubiquitin-protein ligase activity; protein phosphatase binding Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; mitosis; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; cell division; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; mitotic cell cycle spindle assembly checkpoint; mitotic cell cycle

Research Articles on ANAPC4	**1.** Inactivation and disassembly of the anaphase-promoting complex during human cytomegalovirus infection is associated with degradation of the APC5 and APC4 subunits and does not require UL97-mediated phosphorylation of Cdh1.
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