Anaphase-Promoting Complex Subunit 5 (ANAPC5) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anaphase-promoting complex subunit 5 (ANAPC5), Recombinant Protein
Full Product Name	Recombinant Human Anaphase-promoting complex subunit 5 (ANAPC5)
Product Gene Name	ANAPC5 recombinant protein
Product Synonym Gene Name	ANAPC5
Sequence	MASVHESLYF NPMMTNGVVH ANVFGIKDWV TPYKIAVLVL LNEMSRTGEG AVSLMERRRL NQLLLPLLQG PDITLSKLYK LIEESCPQLA NSVQIRIKLM AEGELKDMEQ FFDDLSDSFS GTEPEVHKTS VVGLFLRHMI LAYSKLSFSQ VFKLYTALQQ YFQNGEKKTV EDADMELTSR DEGERKMEKE ELDVSVREEE VSCSGPLSQK QAEFFLSQQA SLLKNDETKA LTPASLQKEL NNLLKFNPDF AEAHYLSYLN NLRVQDVFSS THSLLHYFDR LILTGAESKS NGEEGYGRSL RYAALNLAAL HCRFGHYQQA ELALQEAIRI AQESNDHVCL QHCLSWLYVL GQKRSDSYVL LEHSVKKAVH FGLPYLASLG IQSLVQQRAF AGKTANKLMD ALKDSDLLHW KHSLSELIDI SIAQKTAIWR LYGRSTMALQ QAQMLLSMNS LEAVNAGVQQ NNTESFAVAL CHLAELHAEQ GCFAAASEVL KHLKERFPPN SQHAQLWMLC DQKIQFDRAM NDGKYHLADS LVTGITALNS IEGVYRKAVV LQAQNQMSEA HKLLQKLLVH CQKLKNTEMV ISVLLSVAEL YWRSSSPTIA LPMLLQALAL SKEYRLQYLA SETVLNLAFA QLILGIPEQA LSLLHMAIEP ILADGAILDK GRAMFLVAKC QVASAASYDQ PKKAEALEAA IENLNEAKNY FAKVDCKERI RDVVYFQARL YHTLGKTQER NRCAMLFRQL HQELPSHGVP LINHL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	72,526 Da
Sequence Positions	1-755, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	606948
3D Structure	ModBase 3D Structure for Q9UJX4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ANAPC5 recombinant protein	This gene encodes a tetratricopeptide repeat-containing component of the anaphase promoting complex cyclosome (APC C), a large E3 ubiquitin ligase that controls cell cycle progression by targeting a number of cell cycle regulators such as B-type cyclins for 26S proteasome-mediated degradation through ubiquitination. The encoded protein is required for the proper ubiquitination function of APC C and for the interaction of APC C with transcription coactivators. It also interacts with polyA binding protein and represses internal ribosome entry site-mediated translation. Multiple transcript variants encoding different isoforms have been found for this gene. These differences cause translation initiation at a downstream AUG and result in a shorter protein (isoform b), compared to isoform a.

Other Notes	Small volumes of ANAPC5 recombinant protein 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 ANAPC5 purchase	MBS1314571 is a recombinant protein targeting ANAPC5. Also known as Recombinant Human Anaphase-promoting complex subunit 5 (ANAPC5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANAPC5. It may not necessarily be applicable to this product.

NCBI GI #	213385323
NCBI GeneID	51433
NCBI Accession #	NP_001131031.1
UniProt Primary Accession #	Q9UJX4
UniProt Secondary Accession #	Q8N4H7; Q9BQD4; E9PFB2
UniProt Related Accession #	Q9UJX4
GenBank Nucleotide #	NM_001137559.1
NCBI Official Full Name	anaphase-promoting complex subunit 5 isoform b
NCBI Official Synonym Full Names	anaphase promoting complex subunit 5
NCBI Official Symbol	ANAPC5
NCBI Official Synonym Symbols	APC5
UniProt Protein Name	Anaphase-promoting complex subunit 5
UniProt Synonym Protein Names	Cyclosome subunit 5
UniProt Gene Name	ANAPC5
UniProt Synonym Gene Names	APC5; APC5
NCBI Protein Information	anaphase-promoting complex subunit 5
NCBI Summary for ANAPC5	This gene encodes a tetratricopeptide repeat-containing component of the anaphase promoting complex/cyclosome (APC/C), a large E3 ubiquitin ligase that controls cell cycle progression by targeting a number of cell cycle regulators such as B-type cyclins for 26S proteasome-mediated degradation through ubiquitination. The encoded protein is required for the proper ubiquitination function of APC/C and for the interaction of APC/C with transcription coactivators. It also interacts with polyA binding protein and represses internal ribosome entry site-mediated translation. Multiple transcript variants encoding different isoforms have been found for this gene. These differences cause translation initiation at a downstream AUG and result in a shorter protein (isoform b), compared to isoform a. [provided by RefSeq, Nov 2008]
UniProt Comments for ANAPC5	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.
Research Articles on ANAPC5	**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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