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KD-Validated Anti-Cell division cycle 16 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1173

Product Information

Application	WB, FC, ICC
Primary Accession	Q13042
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3455
Calculated MW	71656
Gene Name	CDC16
Aliases	CDC16; Cell Division Cycle 16; ANAPC6; APC6; CUT9; Cell Division Cycle Protein 16 Homolog; Anaphase-Promoting Complex, Subunit 6; Cyclosome Subunit 6; CDC16Hs; CDC16 (Cell Division Cycle 16, S. Cerevisiae, Homolog); CDC16 Cell Division Cycle 16 Homolog (S. Cerevisiae); Cell Division Cycle 16 Homolog (S. Cerevisiae); Anaphase-Promoting Complex Subunit 6; Cell Division Cycle 16 Homolog; CDC16 Homolog
Immunogen	A synthesized peptide derived from human Apc6 / CDC16

Additional Information

Gene ID	8881
Other Names	Cell division cycle protein 16 homolog, Anaphase-promoting complex subunit 6, APC6, CDC16 homolog, CDC16Hs, Cyclosome subunit 6, CDC16, ANAPC6

Protein Information

Name	CDC16
Synonyms	ANAPC6
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). 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 complex 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	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Colocalizes with CDC27 to the centrosome at all stages of the cell cycle and to the mitotic spindle.

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