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Anti-CDC27 Antibody

Catalog # AP51060

Product Information

Application	WB, IHC
Primary Accession	P30260
Reactivity	Human, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91867

Additional Information

Gene ID	996
Other Names	ANAPC3; D0S1430E; D17S978E; Cell division cycle protein 27 homolog; Anaphase-promoting complex subunit 3; APC3; CDC27 homolog; CDC27Hs; H-NUC
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CDC27. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CDC27
Synonyms	ANAPC3, D0S1430E, D17S978E
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

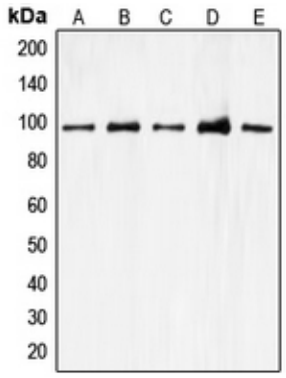
segregation (PubMed:27509861).

Cellular Location Nucleus. Cytoplasm, cytoskeleton, spindle

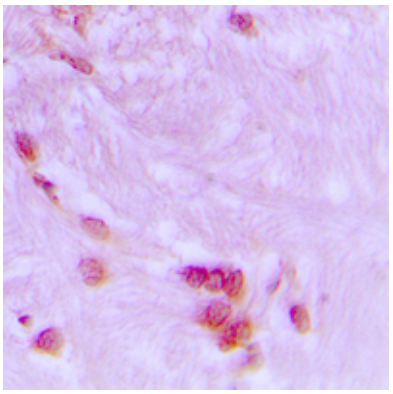
References

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Chen P.L.,et al.Cell Growth Differ. 6:199-210(1995).
Zody M.C.,et al.Nature 440:1045-1049(2006).
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Kraft C.,et al.EMBO J. 22:6598-6609(2003).

Images



Western blot analysis of CDC27 expression in A549 (A), K562 (B), Jurkat (C), HEK293T (D), HeLa (E) whole cell lysates. (Predicted band size: 91 kD; Observed band size: 97 kD)



Immunohistochemical analysis of CDC27 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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