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CDCA8 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1447c

Product Information

Application	WB, E
Primary Accession	Q53HL2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31323
Antigen Region	115-144

Additional Information

Gene ID	55143
Other Names	Borealin, Cell division cycle-associated protein 8, Dasra-B, hDasra-B, Pluripotent embryonic stem cell-related gene 3 protein, CDCA8, PESCRG3
Target/Specificity	This CDCA8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 115-144 amino acids from the Central region of human CDCA8.
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	CDCA8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDCA8
Synonyms	PESCRG3
Function	Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation

	and is required for chromatin-induced microtubule stabilization and spindle assembly. Major effector of the TTK kinase in the control of attachment-error-correction and chromosome alignment.
Cellular Location	Nucleus, nucleolus. Cytoplasm. Cytoplasm, cytoskeleton, spindle. Chromosome, centromere. Note=Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis Colocalizes with SENP3 in the nucleolus in interphase cells

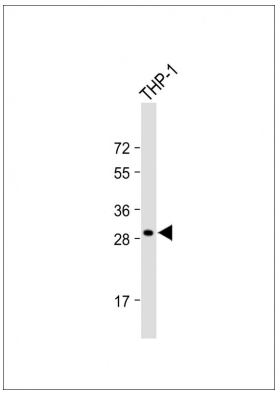
Background

CDCA8 is a component of the chromosomal passenger complex (CPC) required for stability of the bipolar mitotic spindle. The CPC complex, a key regulator of mitosis, has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. In the complex, CDCA8 may be required to direct the CPC to centromeric DNA.

References

Sampath, S.C., et al., Cell 118(2):187-202 (2004).
Gassmann, R., et al., J. Cell Biol. 166(2):179-191 (2004).

Images



Anti-CDCA8 Antibody (Center) at 1:2000 dilution + THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- A survivin-ran complex regulates spindle formation in tumor cells.