

CDCA8

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:100 - 1:200

Calculated MW: 31kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant Protein of human CDCA8

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CDCA8;BOR;BOREALIN;FLJ10468;FLJ12042 ; Borealin

Catalog #: A0675

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 55143

Isotype: IgG

Swiss Prot: Q53HL2

Purity: Affinity purification

For research use only.

Background:

Borealin is a 280-amino acid protein that stabilizes the bipolar mitotic spindle. Borealin is part of a complex called Aurora B kinase that has essential regulatory roles at centromeres and the central spindle in cells undergoing mitosis. This complex makes up the enzymatic core of the chromosomal passenger complex (CPC). It is possible that the Borealin subunit directs the CPC to centromeric DNA. Deletion of Borealin delays mitotic progression and causes kinetochore-spindle to mis-attach. Deletion also causes an increase in bipolar spindles associated with ectopic asters. These extra poles, which form after chromosomes acquire their bipolar orientation, seriously disrupt chromosome allotment during anaphase. It is true that inappropriate chromosomal segregation and cell division may cause auneuploidy leading to cancer, so an abnormal expression of Borealin may lead to gastric cancer.

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