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CDCA8 Rabbit pAb

Catalog # AP99617

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q53HL2
Other Accession	Q53HL2
Reactivity	Human
Predicted	Rat, Bee, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31323
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Borealin/CDCA8
Epitope Specificity	20-120/280
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the borealin family.
SUBUNIT	May form homooligomers and homodimers.
Post-translational modifications	Phosphorylated by TTK, essentially at Thr-88, Thr94, Thr-169 and Thr-230. Sumoylated by UBE2I and RANBP2. Desumoylated by SENP3 through the removal of SUMO2 and SUMO3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. In the complex, it may be required to direct the CPC to centromeric DNA. Major effector of the TTK kinase in the control of attachment-error-correction and chromosome alignment.

Additional Information

Gene ID	55143
Other Names	BOR; BOREALIN; DasraB; MESRGP; 4831429J16Rik; D4Ertd421e; BOREA_HUMAN; CDCA8; Cell division cycle-associated protein 8; Dasra-B (hDasra-B); Pluripotent embryonic stem cell-related gene 3 protein; PESCRG3; BOREA_MOUSE; MESrg; BOREA_RAT; cell division cycle associated 8
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.