CDCA8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDCA8, Polyclonal Antibody
Full Product Name	CDCA8 Conjugated Antibody
Product Gene Name	anti-CDCA8 antibody
Product Synonym Names	BOR; DasraB; MESRGP; BOREALIN
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total CDCA8 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	31,323 Da
OMIM	609977
3D Structure	ModBase 3D Structure for Q53HL2
Immunogen	Full length fusion protein
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CDCA8 antibody	Most Applications
Application Notes for anti-CDCA8 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CDCA8 antibody	This gene encodes a component of the chromosomal passenger complex. This complex is an essential regulator of mitosis and cell division. This protein is cell-cycle regulated and is required for chromatin-induced microtubule stabilization and spindle formation. Alternate splicing results in multiple transcript variants. Pseudgenes of this gene are found on chromosomes 7, 8 and 16.
Other Notes	Small volumes of anti-CDCA8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDCA8 purchase	MBS9446623 is an antibody targeting CDCA8. Also known as CDCA8 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDCA8. It may not necessarily be applicable to this product.

NCBI GI #	33875758
NCBI GeneID	55143
NCBI Accession #	BC000703
UniProt Primary Accession #	Q53HL2
UniProt Secondary Accession #	Q53HN1; Q96AM3; Q9NVW5; D3DPT4
UniProt Related Accession #	Q53HL2
NCBI Official Full Name	Homo sapiens cell division cycle associated 8, mRNA
NCBI Official Synonym Full Names	cell division cycle associated 8
NCBI Official Symbol	CDCA8
NCBI Official Synonym Symbols	BOR; DasraB; MESRGP; BOREALIN
UniProt Protein Name	Borealin
UniProt Synonym Protein Names	Cell division cycle-associated protein 8; Dasra-B; hDasra-B; Pluripotent embryonic stem cell-related gene 3 protein
UniProt Gene Name	CDCA8
UniProt Synonym Gene Names	PESCRG3; hDasra-B
UniProt Entry Name	BOREA_HUMAN
NCBI Protein Information	borealin
UniProt Comments for CDCA8	Borealin: 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. Belongs to the borealin family. Protein type: Cell cycle regulation; Nucleolus Chromosomal Location of Human Ortholog: 1p34.3 Cellular Component: intercellular bridge; protein complex; nucleolus; spindle; midbody; nucleus; cytosol; chromosome, pericentric region; chromocenter Molecular Function: protein binding Biological Process: cell division; mitotic cell cycle; mitotic metaphase plate congression; chromosome organization and biogenesis
Research Articles on CDCA8	**1.** Borealin dimerization mediates chromosomal passenger complex checkpoint function by enhancing localization to centromeres and kinetochores.
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