CDCA8 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CDCA8, Blocking Peptide
Full Product Name	CDCA8 Antibody (Center) Blocking Peptide
Product Gene Name	CDCA8 blocking peptide
Product Synonym Gene Name	PESCRG3
Product Synonym Names	Borealin; Cell division cycle-associated protein 8; Dasra-B; hDasra-B; Pluripotent embryonic stem cell-related gene 3 protein; CDCA8; PESCRG3
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Center region of human CDCA8. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CDCA8 peptide (MBS9220818) is used for blocking the activity of CDCA8 antibody (MBS9209615)
Molecular Weight	31,323 Da
OMIM	609977
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
Related Product Information for CDCA8 blocking peptide	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.
Other Notes	Small volumes of CDCA8 blocking peptide 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	MBS9220818 is a blocking peptide targeting CDCA8. Also known as CDCA8 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	110832774
NCBI GeneID	55143
NCBI Accession #	Q53HL2.2
UniProt Primary Accession #	Q53HL2
UniProt Secondary Accession #	Q53HN1; Q96AM3; Q9NVW5; D3DPT4
UniProt Related Accession #	Q53HL2

NCBI Official Full Name	Borealin
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
NCBI Summary for CDCA8	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. [provided by RefSeq, Apr 2013]
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: Nucleolus; Cell cycle regulation Chromosomal Location of Human Ortholog: 1p34.3 Cellular Component: chromosome, pericentric region; cytosol; intercellular bridge; midbody; nucleolus; nucleoplasm; nucleus; protein complex; spindle midzone Molecular Function: protein binding Biological Process: chromosome organization and biogenesis; mitotic metaphase plate congression; protein sumoylation; sister chromatid cohesion
Research Articles on CDCA8	**1.** Borealin dimerization mediates chromosomal passenger complex checkpoint function by enhancing localization to centromeres and kinetochores.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/cdca8/9220818