

CDCA8 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1447c**Specification**

CDCA8 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q53HL2](#)**CDCA8 Antibody (Center) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP1447c](/product/products/AP1447c) 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.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CDCA8 Antibody (Center) Blocking Peptide - 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

CDCA8 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CDCA8 Antibody (Center) Blocking Peptide - Images

CDCA8 Antibody (Center) Blocking Peptide - 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.

CDCA8 Antibody (Center) Blocking Peptide - References

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