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NDC80 Blocking Peptide (C-Term)

Synthetic peptide
Catalog # BP22066b

Specification

NDC80 Blocking Peptide (C-Term) - Product Information

Primary Accession	O14777
Other Accession	Q4R630

NDC80 Blocking Peptide (C-Term) - Additional Information

Gene ID 10403

Other Names
Kinetochore protein NDC80 homolog, Highly expressed in cancer protein, Kinetochore protein Hec1, HsHec1, Kinetochore-associated protein 2, Retinoblastoma-associated protein HEC, NDC80, HEC, HEC1, KNTC2

Target/Specificity
The synthetic peptide sequence is selected from aa 528-539 of HUMAN NDC80

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.

NDC80 Blocking Peptide (C-Term) - Protein Information

Name NDC80

Synonyms HEC, HEC1, KNTC2

Function
Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity (PubMed:9315664, PubMed:12351790, PubMed:14654001, PubMed:14699129, PubMed:15062103, PubMed:15235793, PubMed:15239953, PubMed:15548592, PubMed:<a

href="http://www.uniprot.org/citations/16732327" target="_blank">16732327, PubMed:30409912). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:15548592, PubMed:30409912). The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules (PubMed:23085020). Plays a role in chromosome congression and is essential for the end-on attachment of the kinetochores to spindle microtubules (PubMed:25743205, PubMed:23891108).

Cellular Location
Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14699129) Localizes specifically to the outer plate of the kinetochore (PubMed:14699129).

NDC80 Blocking Peptide (C-Term) - Protocols

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

- Blocking Peptides

NDC80 Blocking Peptide (C-Term) - Images

NDC80 Blocking Peptide (C-Term) - Background

Acts as a component of the essential kinetochore- associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity. Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore.

NDC80 Blocking Peptide (C-Term) - References

Chen Y.,et al.Mol. Cell. Biol. 17:6049-6056(1997).
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Zheng L.,et al.Mol. Cell. Biol. 19:5417-5428(1999).
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Chen Y.,et al.J. Biol. Chem. 277:49408-49416(2002).