

NDC80 Blocking Peptide (C-Term)
Synthetic peptide
Catalog # BP21833b**Specification**

NDC80 Blocking Peptide (C-Term) - Product InformationPrimary Accession [O14777](#)**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 614-628 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:12351790, PubMed:14654001, PubMed:14699129, PubMed:15062103, PubMed:15235793, PubMed:15239953, PubMed:15548592, PubMed:16732327, PubMed:30409912, PubMed:<a

[9315664](http://www.uniprot.org/citations/9315664)). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:[15548592](http://www.uniprot.org/citations/15548592), PubMed:[30409912](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/23085020)). Plays a role in chromosome congression and is essential for the end-on attachment of the kinetochores to spindle microtubules (PubMed:[23891108](http://www.uniprot.org/citations/23891108), PubMed:[25743205](http://www.uniprot.org/citations/25743205)).

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

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Chen Y.,et al.J. Biol. Chem. 277:49408-49416(2002).