

**HEC1 Antibody**  
Rabbit mAb  
Catalog # AP91388

## Specification

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### HEC1 Antibody - Product Information

Application	<b>WB, IP</b>
Primary Accession	<a href="#">O14777</a>
Reactivity	<b>Rat</b>
Clonality	<b>Monoclonal</b>
<b>Other Names</b>	
HEC; HsHec1; hsNDC80; Kinetochore protein Hec1; Kinetochore-associated protein 2; KNTC2; ndc80; TID3;	
Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>73913 Da</b>

### HEC1 Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human HEC1</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

### HEC1 Antibody - 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:<a href="http://www.uniprot.org/citations/12351790" target="\_blank">12351790</a>, PubMed:<a href="http://www.uniprot.org/citations/14654001" target="\_blank">14654001</a>, PubMed:<a href="http://www.uniprot.org/citations/14699129" target="\_blank">14699129</a>, PubMed:<a href="http://www.uniprot.org/citations/14699129" target="\_blank">14699129</a>, PubMed:<a href="http://www.uniprot.org/citations/14699129" target="\_blank">14699129</a>)

<http://www.uniprot.org/citations/15062103> target="\_blank">15062103</a>, PubMed:<a href="http://www.uniprot.org/citations/15235793" target="\_blank">15235793</a>, PubMed:<a href="http://www.uniprot.org/citations/15239953" target="\_blank">15239953</a>, PubMed:<a href="http://www.uniprot.org/citations/15548592" target="\_blank">15548592</a>, PubMed:<a href="http://www.uniprot.org/citations/16732327" target="\_blank">16732327</a>, PubMed:<a href="http://www.uniprot.org/citations/30409912" target="\_blank">30409912</a>, PubMed:<a href="http://www.uniprot.org/citations/9315664" target="\_blank">9315664</a>). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:<a href="http://www.uniprot.org/citations/15548592" target="\_blank">15548592</a>, PubMed:<a href="http://www.uniprot.org/citations/30409912" target="\_blank">30409912</a>). The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules (PubMed:<a href="http://www.uniprot.org/citations/23085020" target="\_blank">23085020</a>). Plays a role in chromosome congression and is essential for the end-on attachment of the kinetochores to spindle microtubules (PubMed:<a href="http://www.uniprot.org/citations/23891108" target="\_blank">23891108</a>, PubMed:<a href="http://www.uniprot.org/citations/25743205" target="\_blank">25743205</a>).

### Cellular Location

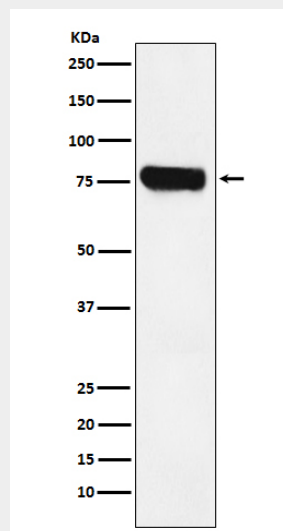
Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14699129) Localizes specifically to the outer plate of the kinetochore (PubMed:14699129).

### HEC1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### HEC1 Antibody - Images



Western blot analysis of HEC1 expression in Jurkat cell lysate.