

**Hec1 Polyclonal Antibody**  
Catalog # AP70304**Specification****Hec1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O14777</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

**Hec1 Polyclonal Antibody - Additional Information****Gene ID** 10403**Other Names**

NDC80; HEC; HEC1; KNTC2; Kinetochores protein NDC80 homolog; Highly expressed in cancer protein; Kinetochores protein Hec1; HsHec1; Kinetochores-associated protein 2; Retinoblastoma-associated protein HEC

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Hec1 Polyclonal Antibody - Protein Information****Name** NDC80**Synonyms** HEC, HEC1, KNTC2**Function**

Acts as a component of the essential kinetochores-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/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

[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

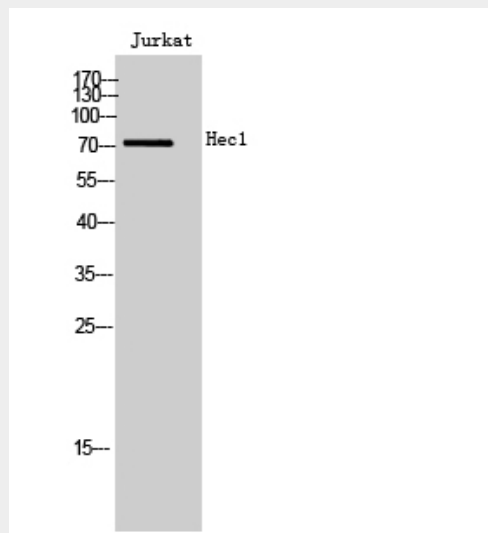
Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14699129) Localizes specifically to the outer plate of the kinetochore (PubMed:14699129).

### Hec1 Polyclonal 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 Polyclonal Antibody - Images



### Hec1 Polyclonal Antibody - Background

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:16732327). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:15548592). 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).