

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

Application	WB
Primary Accession	O14777
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: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

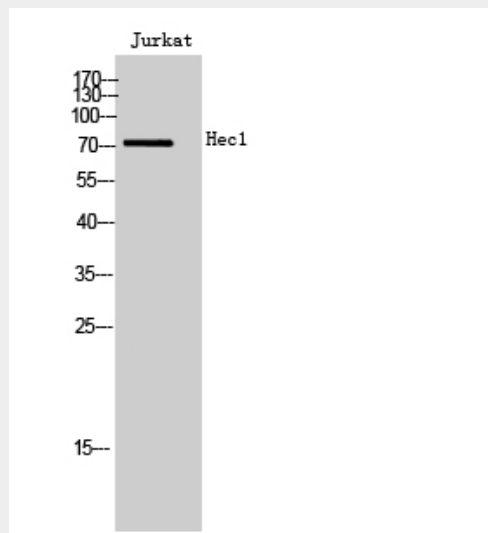
Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14699129) Localizes specifically to the outer plate of the kinetochore (PubMed:14699129).

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

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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).