

**NDC80 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51659****Specification**

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**NDC80 Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">O14777</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>74 KDa</b>

**NDC80 Antibody - Additional Information****Gene ID** 10403**Other Names**

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

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**NDC80 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](http://www.uniprot.org/citations/12351790), PubMed: [14654001](http://www.uniprot.org/citations/14654001), PubMed: [14699129](http://www.uniprot.org/citations/14699129), PubMed: [15062103](http://www.uniprot.org/citations/15062103), PubMed: [15235793](http://www.uniprot.org/citations/15235793), PubMed: [15239953](http://www.uniprot.org/citations/15239953), PubMed: [15548592](http://www.uniprot.org/citations/15548592), PubMed: [16732327](http://www.uniprot.org/citations/16732327), PubMed: [30409912](http://www.uniprot.org/citations/30409912), PubMed: [9315664](http://www.uniprot.org/citations/9315664)). Required for kinetochores 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).

#### NDC80 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](#)

#### NDC80 Antibody - Images

#### NDC80 Antibody - 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 Antibody - References

Chen Y., et al. Mol. Cell. Biol. 17:6049-6056(1997).  
Chen Y., et al. J. Biol. Chem. 272:24081-24087(1997).  
Zheng L., et al. Mol. Cell. Biol. 19:5417-5428(1999).  
Zheng L., et al. Mol. Cell. Biol. 20:3529-3537(2000).  
Chen Y., et al. J. Biol. Chem. 277:49408-49416(2002).