

HEC1 / NDC80 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12527**Specification**

HEC1 / NDC80 Antibody (C-Terminus) - Product Information

Application	WB, IHC-P, E
Primary Accession	O14777
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	74kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

HEC1 / NDC80 Antibody (C-Terminus) - 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

Target/Specificity

Human NDC80 / HEC1.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

HEC1 / NDC80 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

HEC1 / NDC80 Antibody (C-Terminus) - 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:<a

[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 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).

Volume

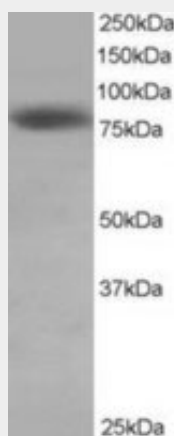
250 µl

HEC1 / NDC80 Antibody (C-Terminus) - Protocols

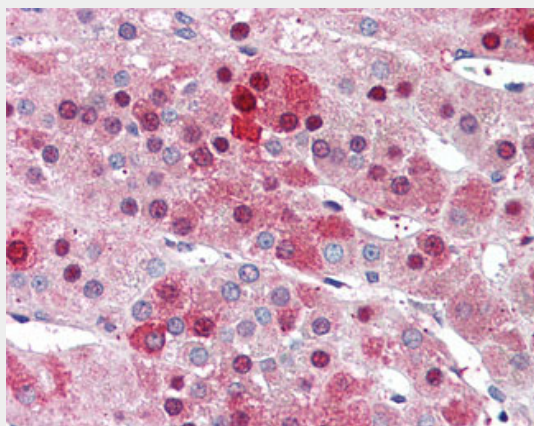
Provided below are standard protocols that you may find useful for product applications.

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

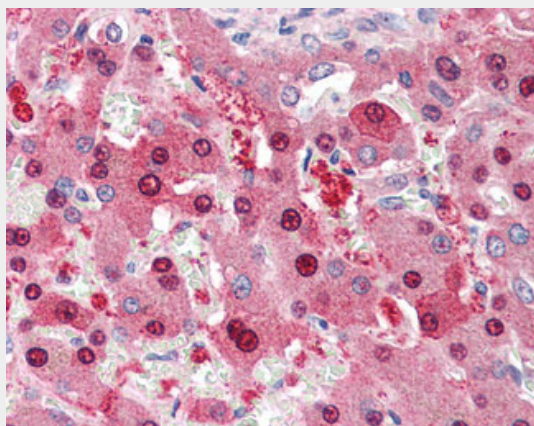
HEC1 / NDC80 Antibody (C-Terminus) - Images



Antibody staining (0.5 ug/ml) of HeLa lysate (RIPA buffer, 35 ug total protein per lane).



Anti-NDC80 / HEC1 antibody IHC of human adrenal.



Anti-NDC80 / HEC1 antibody IHC of human liver.

HEC1 / NDC80 Antibody (C-Terminus) - 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.

HEC1 / NDC80 Antibody (C-Terminus) - 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).