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HEC1 / NDC80 Antibody (C-Terminus)

Goat Polyclonal Antibody
Catalog # ALS12527

Specification

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

Application	**WB, IHC**
Primary Accession	O14777
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**74kDa KDa**

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

Gene ID 10403

Other Names
Kinetochore protein NDC80 homolog, Highly expressed in cancer protein, Kinetochore protein Hec1, HsHec1, Kinetochore-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 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:<a

href="http://www.uniprot.org/citations/15548592" target="_blank">15548592, PubMed:16732327, PubMed:30409912). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:15548592, PubMed: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). Plays a role in chromosome congression and is essential for the end-on attachment of the kinetochores to spindle microtubules (PubMed:25743205, PubMed:23891108).

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).

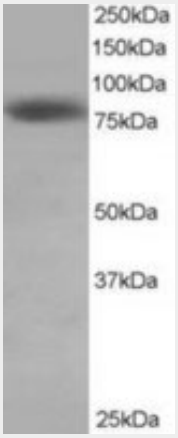
Volume
250 µl

HEC1 / NDC80 Antibody (C-Terminus) - Protocols

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

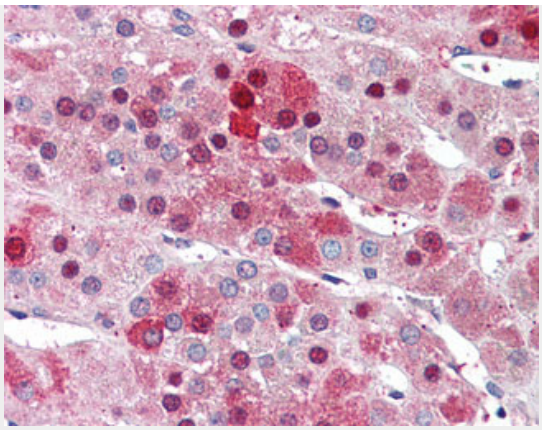
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HEC1 / NDC80 Antibody (C-Terminus) - Images

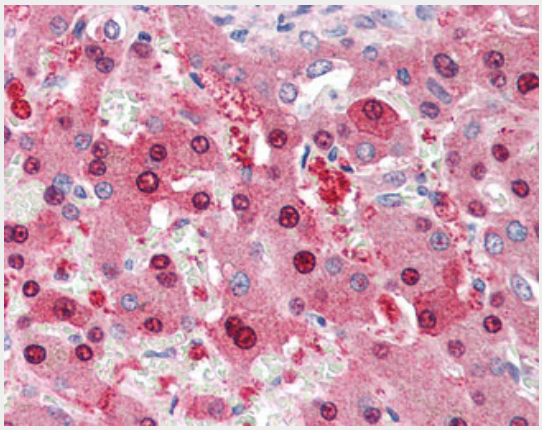


Antibody staining (0.5 ug/ml) of HeLa lysate (RIPA buffer, 35 ug total protein per lane).

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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).