

[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 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

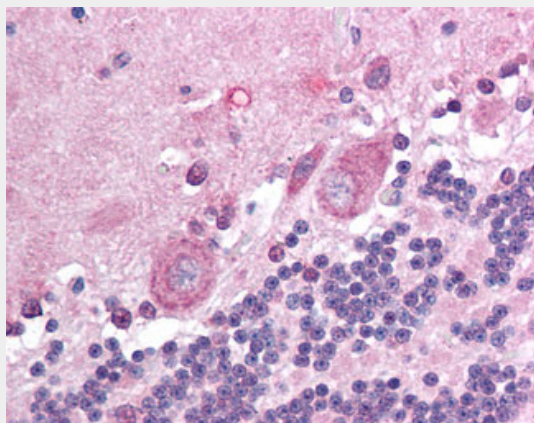
Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14699129) Localizes specifically to the outer plate of the kinetochore (PubMed:14699129).

HEC1 / NDC80 Antibody (aa56-642, clone 9G3.23) - 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 (aa56-642, clone 9G3.23) - Images



Anti-NDC80 / HEC1 antibody IHC of human brain, cerebellum.

HEC1 / NDC80 Antibody (aa56-642, clone 9G3.23) - 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 (aa56-642, clone 9G3.23) - References

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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).