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

Mouse Monoclonal Antibody
Catalog # ALS11865

Specification

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

Application	**IHC**
Primary Accession	O14777
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**74kDa KDa**

HEC1 / NDC80 Antibody (aa56-642, clone 9G3.23) - 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 HEC1 protein consisting of amino acids 56-642.

Reconstitution & Storage
+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions
HEC1 / NDC80 Antibody (aa56-642, clone 9G3.23) is for research use only and not for use in diagnostic or therapeutic procedures.

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

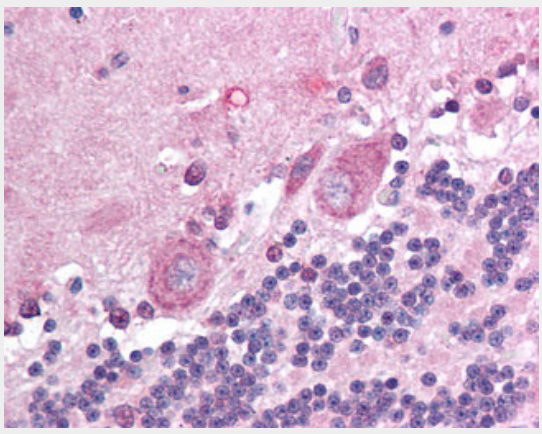
Cellular Location
Nucleus. Chromosome, centromere, kinetochore. Note=Localizes to kinetochores from late prophase to anaphase (PubMed:14699129) Localizes specifically to the outer plate of the kinetochore (PubMed:14699129).

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 Cytomety
- 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.

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

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Chen Y.,et al.J. Biol. Chem. 277:49408-49416(2002).