

Anti-HEC1 NDC80 Monoclonal Antibody

Catalog # ABO14417

Product Information

Application	WB, IP
Primary Accession	Q14777
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-HEC1 NDC80 Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

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
Calculated MW	73913
Application Details	WB 1:1000-1:5000 IP 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names Immunogen	Clone: ACBI-14 A synthesized peptide derived from human HEC1 Acts as a component of the essential kinetochores-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity. Required for kinetochores integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochores.
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	NDC80
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Synonyms

HEC, HEC1, KNTC2

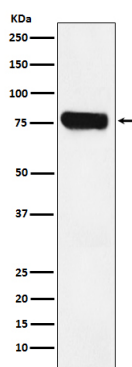
Function

Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity (PubMed:[12351790](#), PubMed:[14654001](#), PubMed:[14699129](#), PubMed:[15062103](#), PubMed:[15235793](#), PubMed:[15239953](#), PubMed:[15548592](#), PubMed:[16732327](#), PubMed:[30409912](#), PubMed:[9315664](#)). 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:[23891108](#), PubMed:[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](#)).

Images



Western blot analysis of HEC1 expression in Jurkat cell lysate.

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