10320 Camino Santa Fe, Suite G San Diego, CA 92121 Tel: 858.875.1900 Fax: 858.875.1999



Hec1 Polyclonal Antibody

Catalog # AP70304

Product Information

Application WB, IF **Primary Accession** 014777

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW73913

Additional Information

Gene ID 10403

Other Names NDC80; HEC; HEC1; KNTC2; Kinetochore protein NDC80 homolog; Highly

expressed in cancer protein; Kinetochore protein Hec1; HsHec1;

Kinetochore-associated protein 2; Retinoblastoma-associated protein HEC

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000.

ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

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:<u>12351790</u>, PubMed:<u>14654001</u>, PubMed:<u>14699129</u>, PubMed:<u>15062103</u>, PubMed:<u>15235793</u>, PubMed:<u>15239953</u>, PubMed:<u>15548592</u>, PubMed:<u>16732327</u>,

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

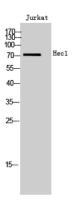
(PubMed: 23891108, PubMed: 25743205).

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).

Background

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:15548592, PubMed:16732327). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:15548592). 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).

Images



Western Blot analysis of Jurkat cells using Hec1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

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