

# Hec1 Polyclonal Antibody

Catalog # AP70304

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IF, ICC, E         |
| <b>Primary Accession</b> | <a href="#">O14777</a> |
| <b>Reactivity</b>        | Human, Mouse           |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Polyclonal             |
| <b>Calculated MW</b>     | 73913                  |

## Additional Information

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|---------------------------|---|
| <b>Gene ID</b>            | 10403   |
| <b>Other Names</b>        | 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 |
| <b>Dilution</b>           | 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 ICC~~N/A E~~N/A  |
| <b>Format</b>             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.   |
| <b>Storage Conditions</b> | -20°C   |

## Protein Information

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| <b>Name</b>     | NDC80   |
| <b>Synonyms</b> | HEC, HEC1, KNTC2  |
| <b>Function</b> | Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity (PubMed: <a href="#">12351790</a> , PubMed: <a href="#">14654001</a> , PubMed: <a href="#">14699129</a> , PubMed: <a href="#">15062103</a> , PubMed: <a href="#">15235793</a> , PubMed: <a href="#">15239953</a> , PubMed: <a href="#">15548592</a> , PubMed: <a href="#">16732327</a> , PubMed: <a href="#">30409912</a> , PubMed: <a href="#">9315664</a> ). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed: <a href="#">15548592</a> , PubMed: <a href="#">30409912</a> ). The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules (PubMed: <a href="#">23085020</a> ). Plays a role in chromosome congression and is essential for the end-on attachment of the kinetochores to spindle microtubules (PubMed: <a href="#">23891108</a> , PubMed: <a href="#">25743205</a> ). |

## 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).

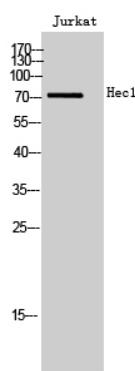
## Background

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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:[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

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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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.