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**Product Name: Hec1 Rabbit Polyclonal Antibody****Catalog #: APRab11962**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	73kDa

**Antigen Information**

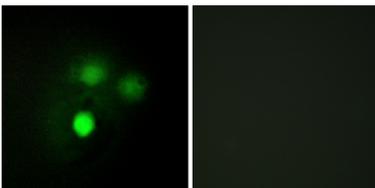
<b>Gene Name</b>	NDC80
<b>Alternative Names</b>	NDC80; HEC; HEC1; KNTC2; Kinetochore protein NDC80 homolog; Highly expressed in cancer protein; Kinetochore protein Hec1; HsHec1; Kinetochore-associated protein 2; Retinoblastoma-associated protein HEC
<b>Gene ID</b>	10403.0
<b>SwissProt ID</b>	O14777
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human KNTC2. AA range:351-400

## Background

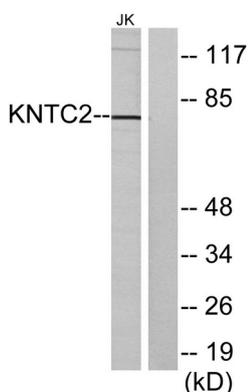
This gene encodes a component of the NDC80 kinetochore complex. The encoded protein consists of an N-terminal microtubule binding domain and a C-terminal coiled-coiled domain that interacts with other components of the complex. This protein functions to organize and stabilize microtubule-kinetochore interactions and is required for proper chromosome segregation. [provided by RefSeq, Oct 2011],developmental stage:Expression peaks in mitosis.,function: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.,PTM:Phosphorylation begins in S phase of the cell cycle and peaks in mitosis. Phosphorylated by NEK2. May also be phosphorylated by AURKA and AURKB.,similarity:Belongs to the NDC80/HEC1 family.,subcellular location:Localizes to kinetochores from late prophase to anaphase. Localizes specifically to the outer plate of the kinetochore.,subunit:Component of the NDC80 complex, which consists of NDC80/HEC1, CDCA1, SPBC24 and SPBC25. The NDC80 complex is formed by two subcomplexes composed of NDC80/HEC1-CDCA1 and SPBC24-SPBC25. Each subcomplex is formed by parallel interactions through the coiled-coil domains of individual subunits. Formation of a tetrameric complex is mediated by interactions between the C-terminal regions of both subunits of the NDC80/HEC1-CDCA1 subcomplex and the N-terminal regions of both subunits of the SPBC24-SPBC25 complex. The tetrameric NDC80 complex has an elongated rod-like structure with globular domains at either end. Interacts with NEK2 and ZWINT specifically during mitosis. Interacts with CENPH and MIS12. May interact with AURKB, PSMC2, PSMC5 and SMC1A. May interact with RB1 during G2 phase and mitosis.,

## Research Area

### Image Data



Immunofluorescence analysis of HUVEC cells, using KNTC2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using KNTC2 Antibody. The lane on the right is blocked with the synthesized peptide.

Western Blot analysis of Jurkat cells using Hec1 Polyclonal Antibody.

