



Hec1 Polyclonal Antibody

Catalog No	YP-Ab-16737
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IF;ELISA
Gene Name	NDC80
Immunogen	The antiserum was produced against synthesized peptide derived from human KNTC2. AA range:351-400
Specificity	Hec1 Polyclonal Antibody detects endogenous levels of Hec1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NDC80;5A2;HEC;HEC1;HsHec1;Kinetochore protein NDC80 homolog;KNTC2; Highly expressed in cancer protein;Kinetochore protein Hec1;Kinetochore-associated protein 2;Retinoblastoma-associated protein HEC
Observed Band	73kD
Calculated Molecular Weight	73kD
Cell Pathway	Nucleus . Chromosome, centromere, kinetochore . Localizes to kinetochores from late prophase to anaphase (PubMed:14699129). Localizes specifically to the outer plate of the kinetochore (PubMed:14699129). .
Tissue Specificity	Bladder,Brain,Epithelium,Lymph,
Function	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 pa

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],

matters needing attention

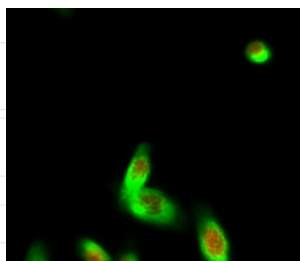
Avoid repeated freezing and thawing!

Usage suggestions

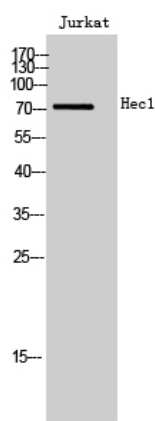
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



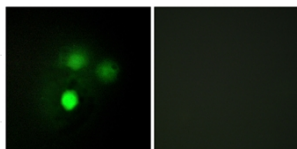
Products Images



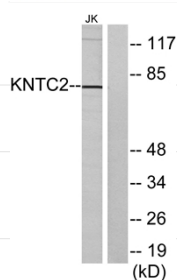
Immunofluorescence analysis of Hela cell. 1, Hec1 Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). Kif 7 Monoclonal Antibody (3F8) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



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



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.