

Rabbit anti-Human, Mouse KNTC2 Polyclonal Antibody | anti-KNTC2 antibody

KNTC2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323725	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

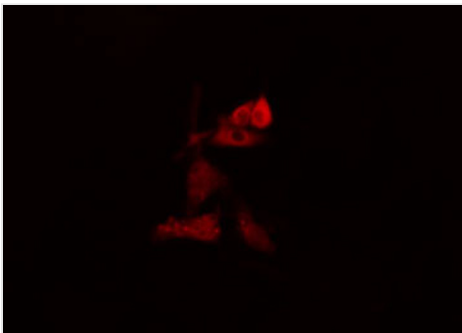
PRODUCT SYNONYMS

KNTC2; Polyclonal Antibody; KNTC2 Antibody; from Entrez Gene; HEC; Highly expressed in cancer; Highly expressed in cancer protein; Highly expressed in cancer rich in leucine heptad repeats; HsHec1; hsNDC80; Kinetochore associated 2; Kinetochore associated protein 2; Kinetochore protein Hec1; Kinetochore protein NDC80 homolog; Kinetochore-associated protein 2; ndc80; NDC80 homolog kinetochore complex component; NDC80 kinetochore complex component homolog; NDC80; S. cerevisiae; homolog of; NDC80_HUMAN; Retinoblastoma associated protein HEC; Retinoblastoma-associated protein HEC; TID3; anti-KNTC2 antibody

PRODUCT SPECIFICATIONS

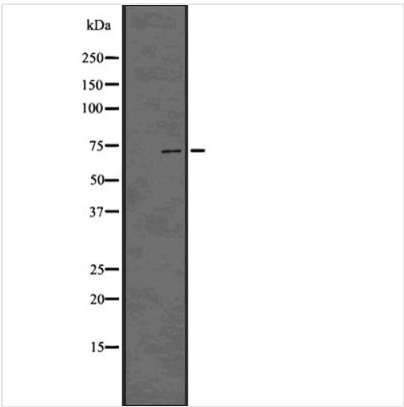
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	KNTC2 antibody detects endogenous levels of total KNTC2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	642
Applicable Applications for anti-KNTC2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human KNTC2
Subcellular Location	Nucleus. Chromosome > Centromere > Kinetochore. Localizes to kinetochores from late prophase to anaphase. Localizes specifically to the outer plate of the kinetochore.
Tissue Specificity	Expression peaks in mitosis.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA323725 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of KNTC2 using 293 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-KNTC2 antibody

Function: 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). Subunit Structure: 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 isoform 1 of 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. Interacts with CKAP5 (PubMed:27156448). Interacts with CDT1; leading to kinetochore localization of CDT1 (PubMed:22581055). Post-translational Modifications: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174457
NCBI GeneID	10403
NCBI Accession #	NP_006092.1
NCBI GenBank Nucleotide #	NM_006101.2
UniProt Accession #	O14777; Q6PJX2
Molecular Weight	Observed: 73 kD Predicted: 74 kDa
NCBI Official Full Name	kinetochore protein NDC80 homolog
NCBI Official Synonym Full Names	NDC80, kinetochore complex component
NCBI Official Symbol	NDC80

NCBI Official Synonym Symbols	HEC; HEC1; TID3; KNTC2; HsHec1; hsNDC80
NCBI Protein Information	kinetochore protein NDC80 homolog
UniProt Protein Name	Kinetochore protein NDC80 homolog
UniProt Gene Name	NDC80
UniProt Synonym Gene Names	HEC; HEC1; KNTC2; HsHec1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/kntc2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323725>