Datasheet for ABIN7602585

anti-NDC80 antibody (AA 87-602)

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Overview

Quantity:	100 µg
Target:	NDC80
Binding Specificity:	AA 87-602
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NDC80 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-HEC1/HEC/NDC80 Antibody Picoband®
Immunogen:	E.coli-derived human HEC1/HEC/NDC80 recombinant protein (Position: N87-E602).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-HEC1/HEC/NDC80 Antibody Picoband® (ABIN7602585). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	NDC80
Alternative Name:	NDC80 (NDC80 Products)
Background:	Synonyms: Kinetochore protein NDC80 homolog, Highly expressed in cancer protein, Kinetochore protein Hec1, HsHec1, Kinetochore-associated protein 2, Retinoblastoma-associated protein HEC, NDC80, HEC, HEC1, KNTC2 Tissue Specificity: Expression peaks in mitosis. Background: Kinetochore protein NDC80 homolog is a protein that in humans is encoded by the NDC80 gene. It is mapped to 18p11.32. 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.
Molecular Weight:	74 kDa
Gene ID:	10403
UniProt:	O14777
Pathways:	Maintenance of Protein Location

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Chen Y, Riley DJ, Chen PL, Lee WH (October 1997). "HEC, a novel nuclear protein rich in leucine heptad repeats specifically involved in mitosis". Molecular and Cellular Biology. 17 (10): 6049-56. 2. Martin-Lluesma S, Stucke VM, Nigg EA (September 2002). "Role of Hec1 in spindle checkpoint signaling and kinetochore recruitment of Mad1/Mad2". Science. 297 (5590): 2267-70. 3. Chen Y, Sharp ZD, Lee WH (September 1997). "HEC binds to the seventh regulatory subunit of the 26 S proteasome and modulates the proteolysis of mitotic cyclins". The Journal of Biological Chemistry. 272 (38): 24081-7.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.