

Datasheet for ABIN7554692  
**NDC80 Protein (AA 1-642) (His tag)**



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## Overview

Quantity:	1 mg
Target:	NDC80
Protein Characteristics:	AA 1-642
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDC80 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat NDC80 Protein expressed in mammalian cells.
Sequence:	<p>           MKRSSVSSGG AGRLSMQELR SQDVNKQGLY TPQTKEKPTF GKLSINKPTS ERKVSFLGKR            TSGHGSRNSQ LGIFSSSEKI KDPRLNDKA FIQQCIRQLC EFLTENGYAH NVSMKSLQAP            SVKDFLKIFT FLYGFLCPSY ELPDTKFEEE VPRIFKDLGY PFALSKSSMY TVGAPHTWPH            IVAALVWLID CIKIHTAMKE SSPLFDDGQP WGEETEDGIM HNKFLDYTI KCYESFMSG            DSFDEMNAEL QSKLKDLFNV DAFKLESLEA KNRALNEQIA RLEQEREKEP NRLESLRKLK            ASLQGDVQKY QAYMSNLESH SAILDQKLNG LNEEIARVEL ECETIKQENT RLQNIIDNQK            YSVADIERIN HERNELQQT I NKLTKDLEAE QQKLWNEELK YARGKEAIET QLAEYHKLAR            KLKLIPKGAE NSKGYDFEIK FNPEAGANCL VKYRAQVYVP LKELLNETEE EINKALNKKM            GLEDTLQLN AMITESKRSV RTLKEEVQKL DDLYQQKIKE AEEDEKSCAS ELESLEKHKH            LLESTVNQGL SEAMNELDAV QREYQLVVQT TTEERRKVG NNLQRLLEMVA THVGSVEKHL            EEQIAKVDRE YEECMSEDLS ENIKEIRDKY EKKATLIKSS EE <b>Sequence without tag. The</b> </p>

**proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

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### Target:

NDC80

### Alternative Name:

NDC80 ([NDC80 Products](#))

### Background:

Kinetochore protein NDC80 homolog (Highly expressed in cancer protein) (Kinetochore protein Hec1) (HsHec1) (Kinetochore-associated protein 2) (Retinoblastoma-associated protein HEC),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, PubMed:30409912). Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore (PubMed:15548592, PubMed:30409912). The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing

## Target Details

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). {ECO:0000269|PubMed:12351790, ECO:0000269|PubMed:14654001, ECO:0000269|PubMed:14699129, ECO:0000269|PubMed:15062103, ECO:0000269|PubMed:15235793, ECO:0000269|PubMed:15239953, ECO:0000269|PubMed:15548592, ECO:0000269|PubMed:16732327, ECO:0000269|PubMed:23085020, ECO:0000269|PubMed:23891108, ECO:0000269|PubMed:25743205, ECO:0000269|PubMed:30409912, ECO:0000269|PubMed:9315664}.

Molecular Weight: 73.9 kDa

UniProt: [O14777](#)

Pathways: [Maintenance of Protein Location](#)

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months