

Datasheet for ABIN7554730

NDEL1 Protein (AA 1-345) (His tag)



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Overview

Quantity:	1 mg
Target:	NDEL1
Protein Characteristics:	AA 1-345
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDEL1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NDEL1 Protein expressed in mammalian cells.
Sequence:	<p>MDGEDIPDFS SLKEETAYWK ELSLKYKQSF QEARDELVEF QEGSRELEASE LEAQLVQAEQ</p> <p>RNRDLQADNQ RLKYEVEALK EKLEHQYAQS YKQVSVLEDD LSQTRAIKEQ LHKYVRELEQ</p> <p>ANDDLERAKR ATIVSLEDGE QRLNQAIERN AFLESELDEK ESLLVSVQRL KDEARDLRQE</p> <p>LAVRERQQEV TRKSAPSSPT LDCEKMDSAV QASLSLPATP VGKGTENTFP SPKAIPNGFG</p> <p>TSPLTPSARI SALNIVGDLK RKVGALESKL AACRNFAKDQ ASRKSYSIGN VNCGLVNGNG</p> <p>TKFSRSGHTS FFDKGAVNGF DPAPPPPLGL SSRPSSAPGM LPLSV Sequence without tag. The 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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NDEL1
Alternative Name:	NDEL1 (NDEL1 Products)
Background:	<p>Nuclear distribution protein nudE-like 1 (Protein Nudel) (Mitosis-associated protein 1),FUNCTION: Required for organization of the cellular microtubule array and microtubule anchoring at the centrosome. May regulate microtubule organization at least in part by targeting the microtubule severing protein KATNA1 to the centrosome. Also positively regulates the activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-mediated microtubule sliding by targeting dynein to the microtubule plus ends. Required for several dynein- and microtubule-dependent processes such as the maintenance of Golgi integrity, the centripetal motion of secretory vesicles and the coupling of the nucleus and centrosome. Also required during brain development for the migration of newly formed neurons from the ventricular/subventricular zone toward the cortical plate. Plays a role, together with DISC1, in the regulation of neurite outgrowth. Required for mitosis in some cell types but appears to be dispensable for mitosis in cortical neuronal progenitors, which instead requires NDE1. Facilitates the polymerization of neurofilaments from the individual subunits NEFH and NEFL. Positively regulates lysosome peripheral distribution and ruffled border formation in</p>

Target Details

	osteoclasts (By similarity). {ECO:0000250 UniProtKB:Q9ERR1, ECO:0000269 PubMed:12556484, ECO:0000269 PubMed:14970193, ECO:0000269 PubMed:16291865, ECO:0000269 PubMed:17600710}.
Molecular Weight:	38.4 kDa
UniProt:	Q9GZM8
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	We expect the protein to work for functional studies. 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