

Recombinant Human NDEL1 Protein (1-345 aa), GST-tagged

Cat. No. NDEL1-2116H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NDEL1 Protein (1-345 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Neuroscience. Protein Description: Full Length of BC026101.
Species	Human
Source	E.coli
ProteinLength	1-345 aa
Description	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.

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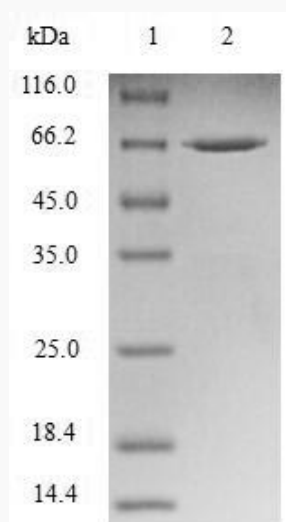
Form	Tris-based buffer,50% glycerol
Molecular Mass	65.4 kDa
AA Sequence	MDGEDIPDFSSLKEETAYWKELSLKYKQSFQEARDELVEFQEGSRELEAELEAQLV QAEQRNRDLQADNQRLKYEVEALKEKLEHQYAQSYKQVSVLEDDLSQTRAIKEQLH KYVRELEQANDDLERAKRATIVSLEDFEQRLNQAIRNAFLESELDEKESLLVSVQRL KDEARDLRQELAVRERQQEVTRKSAPSSPTLDCEKMDSAVQASLSLPATPVGKGTE NTFPSPKAIPNGFGTSPLTPSARISALNIVGDLLRKVGAKESKLAACRNFAKDQASRK SYISGNVNCGLNGNGTKFSRSGHTSFFDKGAVNGFDTAPPPPGLGSSSRPSSAPG MLPLSV
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Gene Name	NDEL1 nudE nuclear distribution E homolog (A. nidulans)-like 1 [Homo sapiens]
Official Symbol	NDEL1

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Synonyms	NDEL1; MITAP1; NUDEL; protein Nudel; EOPA; DKFZp451M0318;
Gene ID	81565
mRNA Refseq	NM_001025579
Protein Refseq	NP_001020750
MIM	607538
UniProt ID	Q9GZM8



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.