Recombinant Mouse Ndel1 Protein, Myc/DDK-tagged

Cat. No. Ndel1-4321M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nuclear distribution gene E-like homolog 1 (A, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 dispensible 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 osteoclasts.
Molecular Mass	35.5 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ndel1 nudE neurodevelopment protein 1 like 1 [Mus musculus (house mouse)]
Official Symbol	Ndel1
Synonyms	Ndel1; nudE neurodevelopment protein 1 like 1; mNud; NUDEL; MITAP1; mNudel; mNudE-L; 2600006O07Rik; nuclear distribution protein nudE-like 1; nuclear disribution gene E like; nuclear distribution gene E-like homolog 1; protein Nudel
Gene ID	83431
mRNA Refseq	NM_023668
Protein Refseq	NP_076157
UniProt ID	Q9ERR1

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