



Anti-NDEL1 monoclonal antibody, clone 2H21 (DCABH-850)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Nudel
Antigen 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 minusend 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.
Immunogen	Recombinant full length Human Nudel produced in HEK293T cells (NP_001020750).
Isotype	lgG2b
Source/Host	Mouse
Species Reactivity	Rat, Dog, Human, Monkey
Clone	2H21
Purification	This antibody is purified from Mouse ascites fluid by affinity chromatography.
Conjugate	Unconjugated
Applications	WB, Flow Cyt

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Positive Control	HEK293T cell lysate transfected with pCMV6-ENTRY Nudel; HepG2, SVT2, COS7, Jurkat, MDCK, PC12 and MCF7 cell extracts; HEK293T cells transfected with pCMV6-ENTRY Nudel overexpress plasmid; Jurkat cells.
Format	Liquid
Size	100 μΙ
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 50% Glycerol, 1% BSA, 48% PBS
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	NDEL1 nudE nuclear distribution E homolog (A. nidulans)-like 1 [Homo sapiens]
Official Symbol	NDEL1
Synonyms	NDEL1; nudE nuclear distribution E homolog (A. nidulans)-like 1; nudE nuclear distribution gene E homolog (A. nidulans) like 1; nuclear distribution protein nudE-like 1; MITAP1; NUDEL; protein Nudel; endooligopeptidase A; mitosin-associated protein 1; mit
Entrez Gene ID	<u>81565</u>
Protein Refseq	NP 001020750
UniProt ID	Q9GZM8
Chromosome Location	17p13.1
Pathway	Aurora A signaling, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; DNA Replication, organism-specific biosystem; Lissencephaly gene (LIS1) in neuronal migration and development, organism-specific biosystem; M Phase, organism-specific biosystem; Mitotic M-M/G1 phases, organism-specific biosystem;
Function	alpha-tubulin binding; beta-tubulin binding; microtubule binding; oligopeptidase activity; protein binding;

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