NDEL1 (Phospho Thr219) Rabbit pAb

CatalogNo: YP1792 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 38kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human NDEL1 (Phospho-Thr219)
Specificity	This antibody detects endogenous levels of NDEL1 (Phospho-Thr219) at Human, Mouse,Rat.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PAtPV

Target Information

Gene name NDEL1 EOPA MITAP1 NUDEL

Protein Name Nuclear distribution protein nudE-like 1

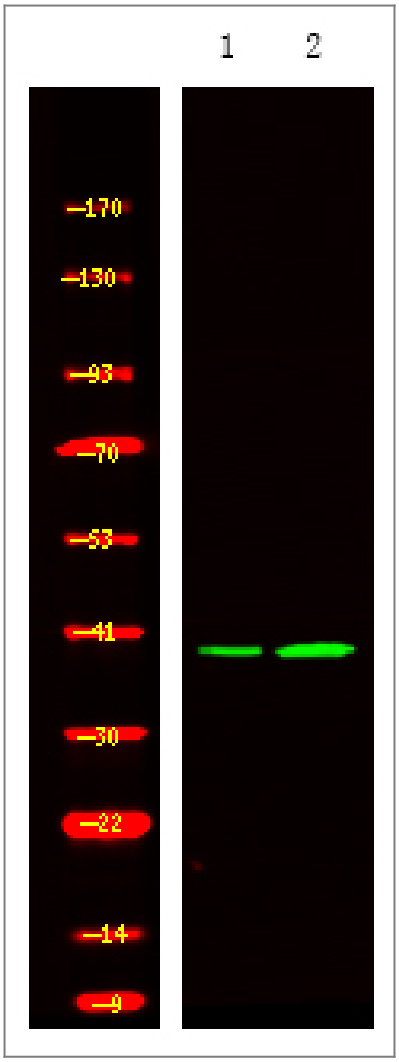
Organism	Gene ID	UniProt ID
Human	81565;	Q9GZM8;
Mouse	83431;	Q9ERR1;
Rat	170845;	Q78PB6;

Cellular Localization Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Localizes to the cell body of the motor neurons and colocalizes with assembled neurofilaments within axonal processes. Localizes to the microtubules of the manchette in elongated spermatids. Colocalizes with DISC1 in the perinuclear region, including the centrosome (By similarity). Localizes to the interphase centrosome and the mitotic spindle. Localizes to the kinetochore in a CENPF-dependent manner. .

Tissue specificity Expressed in brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle.

Function Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,Caution:Was originally (PubMed:15728732) thought to function as an oligopeptidase (NUDEL-oligopeptidase or endooligopeptidase A) which could regulate peptide levels relevant to brain function.,developmental stage:Expression peaks in mitosis.,Function:Facilitates the polymerization of neurofilaments from the individual subunits NEFH and NEFL (By similarity). 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. Required for mitosis in some cell types but appears to be dispensible for mitosis in cortical neuronal progenitors, which instead requires NDE1.,PTM:Phosphorylated in mitosis. Can be phosphorylated by CDC2, CDK5 and MAPK1. Phosphorylation by CDK5 promotes interaction with KATNA1 and YWHAE.,similarity:Belongs to the nudE family.,subcellular location:Localizes to the cell body of the motor neurons and colocalizes with assembled neurofilaments within axonal processes. Localizes to the microtubules of the manchette in elongated spermatids (By similarity). Localizes to the interphase centrosome and the mitotic spindle. Localizes to the kinetochore in a CENPF-dependent manner.,subunit:Interacts with YWHAE. Interacts directly with NEFL and indirectly with NEFH. Interacts with microtubules (By similarity). Self-associates. Interacts with DISC1, dynein, dynactin, tubulin gamma, KATNA1, KATNB1, PAFAH1B1, PCM1 and PCNT. Interacts (via C-terminus) with CENPF.,tissue specificity:Expressed in brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle.,

Validation Data



Western Blot analysis of 1 HepG2 cell 2, LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000

Contact information

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