For Research Use Only

NDEL1 Polyclonal antibody

Catalog Number:17262-1-AP 5 Publications

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Basic Information

Catalog Number:
17262-1-AP

Size:
900 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10975

GenBank Accession Number:
BC026101

GeneID (NCBI):
81565

UNIPROT ID:
Q9GZM8

Full Name:
nudE nuclear distribution gene E homolog (A. nidulans)-like 1

Calculated MW:
345 aa, 38 kDa, 41 kDa

Observed MW:
38-42 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
IP, WB,ELISA

Cited Applications:
IF, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Positive Controls:

WB : human brain tissue, HepG2 cells

IP : HepG2 cells,

Background Information

Nuclear distribution factor E-homolog 1 (NDE1), NDE-like 1 (NDEL1), and Lissencephaly 1 (LIS1) together involve in essential neurodevelopmental processes, including neuronal precursor proliferation and differentiation, neurite outgrowth, and neuronal migration. All three bind directly to Disrupted in Schizophrenia 1 (DISC1), a scaffold protein critical to neuronal proliferation, integration, migration, and synaptic function within the developing and adult brain.[PMID: 18469341] Nuclear distribution element-like 1 (NDEL1) was firstly identified as a regulator of the cytoskeleton in microtubule and intermediate fliament dynamics and microtubule-based transport [PMID:21948775]. It is required for organization of the cellular microtubule array and microtubule anchoring at the centrosome, which is in part by targeting the microtubule severing protein KATNA1 to the centrosome[PMID:15728732].

Notable Publications

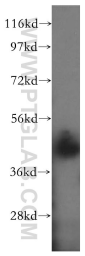
Author	Pubmed ID	Journal	Application
Youngsik Woo	31815665	Elife	IP, WB
Ji-Ho Hong	27546710	Sci Rep	WB,IF
Hyowon Hong	31004438	Ann Neurol	WB

Storage

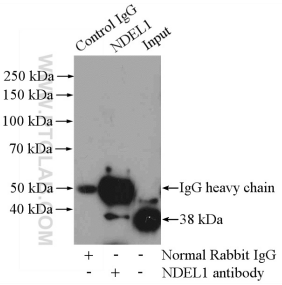
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 17262-1-AP (NDEL1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-NDEL1 (IP:17262-1-AP, 4ug; Detection:17262-1-AP 1:300) with HepG2 cells lysate 2400ug.