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## OriGene EU

AP32375SU-N

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# Polyclonal Antibody to NDEL - Serum

Alternate names: EOPA, MITAP1, NUDEL, Nuclear distribution protein nudE-like 1

Catalog No.: AP32375SU-N

Quantity: 0.1 ml

Background: NudE nuclear distribution gene E homolog (A. nidulans)-like 1 (NUDEL), also known as

NDEL1, is a human gene. This gene encodes a thiol-activated peptidase that is phosphorylated in M phase of the cell cycle. Phosphorylation regulates the cell cycle-dependent distribution of this protein, with a fraction of the protein bound strongly to centrosomes in interphase and localized to mitotic spindles in early M phase. This protein plays a role in nervous system development and is linked to LIS-1, the disease gene for a form of lissencephaly, a disorder of cortical development. Alternate transcriptional splice

variants, encoding different isoforms, have been characterized.

Uniprot ID: Q78PB6

NCBI: NP 579854.1

GenelD: 170845 Host: Mouse

Immunogen: Synthetic Linear Peptide.

Format: State: Liquid Serum

Preservatives: 0.05% Sodium Azide

**Applications:** Western Blot: 1/5000.

Control: Brain Lysate.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Molecular Weight: ~38 kDa

**Specificity:** Recognizes Rat NUDEL.

Other species not tested.

Storage: Store undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Hayashi, M. et al. (2005) PNAS. 10: 3828-3833

Protocols: Western Blot

1. Mix the samples (organ membranes: 50 µg/lane; transfected cells: 500,000 cells/lane)

with sample-buffer X 2, and heat 10 min at 70°C.

2. 5-50  $\mu$ L applied to Minigel lane (0.75-1.5 mm width) and run at standard conditions. (60 mA for 2 1.5 mm Minigel gels, 1.4 h). It is suggested that you run 5-15% acrylamide (37.5:1

acrylamide:bisacrysmide) minigel (1.5 mm width) at 30 mA/gel ~1-1.5 hours.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

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### AP32375SU-N: Polyclonal Antibody to NDEL - Serum

- 3. Transfer in semi-dry system under standard conditions (3 h 100 mA for two minigel gels)
- 4. Stain the transferred bands with Millipore BLOT-FastStain.
- 5. Destain with deionized water.
- 6. Block with 5% non-fat milk (Marvel or Carnation) in PBS, and 0.025 % sodium azide, overnight at 2-8°C. The non-fat milk should be dissolved freshly, centrifuged 10,000 rpm for 10 min, and filtered through glass filter (Gelman Acrodisc).
- 7. Incubation with first antibody 2 h at room temperature or overnight at 4°C in blocking solution. The antibody preparation should be centrifuged before use (10,000 g for 5 min.). Optimal working dilutions and incubation time will need to be determined by the end user.
- 8. Wash 4 x 10 min. with PBS-0.1% Tween 20. From this stage, azide should be omitted.
- 9. Incubation with the secondary antibody (HRP-conjugated goat anti-rabbit antibody, diluted appropriately) 1 h at room temperature.
- 10. Wash 4 x 10 min. with PBS-0.1% tween 20.
- 11. Perform ECL with commercial kits.

**Pictures:** 

**Western Blot Analysis:** NDEL Antibody Cat.-No AP32375SU-N can detect NUDEL at 1/5000 dilutions in Rat brain cytosol Lysate.



