

# NDE1 Monoclonal antibody

Catalog Number: 60165-1-Ig

## Basic Information

<b>Catalog Number:</b> 60165-1-Ig	<b>GenBank Accession Number:</b> BC001421	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 54820	<b>CloneNo.:</b> 5E5E1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NXR1	
<b>Isotype:</b> IgG1	<b>Full Name:</b> nudE nuclear distribution gene E homolog 1 (A. nidulans)	
<b>Immunogen Catalog Number:</b> AG0336	<b>Calculated MW:</b> 335 aa, 38 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

**Tested Applications:**  
ELISA

**Species Specificity:**  
human

## Background Information

NDE1 (NUDE /NUDE1) is a LIS1-interacting protein. A signaling pathway containing NDE1, LIS1, and cytoplasmic dynein is conserved for eukaryotic nuclear migration and has profound impact on neuronal migration during development of the central nervous system. LIS1 and dynein have been shown to be involved in mitosis and NDE1 participates in a subset of dynein function in M phase. NDE1 is specifically phosphorylated in M phase in its serine/threonine phosphorylation motifs, probably by Cdc2 and also Erk1 and Erk2. A fraction of NDE1 binds to centrosomes strongly in interphase and is localized to mitotic spindles in early M phase. Phosphorylation of NDE1 also regulates the cell-cycle-dependent distribution, possibly by increasing its dissociation rate at the microtubule-organizing center. This antibody is specific to NDE1 gene and it has no cross-reaction to NDEL1.

## 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](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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