Data Sheet (Cat.No.TMAB-11031)

Anti-Phospho-NDEL1 (Ser242) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Chicken,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 38 kDa. Actual: 36 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Epithelium (Mouse) Lysate at 40 μg Primary: Anti-phospho-NDEL1 (Ser242) (TMAB-11031) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 38 kD Observed band size: 38 kD 2. Sample: Large intestine (Mouse) Lysate at 40 μg Primary: Anti-phospho-NDEL1 (Ser242) (TMAB-11031) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 38 kD Observed band size: 38 kD 3. Sample: Lane 1: Human U87MG cell lysates Lane 2: Human SH-SY5Y cell lysates Primary: Anti-phospho-NDEL1 (Ser242) (TMAB-11031) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 38 kDa Observed band size: 36 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human NDEL1 around the phosphorylation site of Ser242
Antigen Species:	Human
Gene ID:	81565
Uniprot ID:	Q9GZM8

Research Background

Nudel is important for normal cortical development. It is invovled in microtubule organization, nuclear translocation, and neuronal positioning in concert with various other factors (including Lis1, Pafah1b1, Pahfah1b2, dynein,

dynorphin A and cdk5). Western blot analysis of mouse tissues shows abundant expression of Nudel in brain and testis, and much lower expression in heart, liver, kidney, and skeletal muscle. In fractionated rat brain, Nudel and Lis1 are both found in fractions enriched for postsynaptic density proteins. Immunostaining of embryonic day 18 mouse brain sections revealed staining of migrating neurons and thalamocortical axons of the intermediate zone of the developing cerebral cortex, as well as several other developing brain regions. The deduced protein contains 345 amino acids and has a calculated molecular mass of 38.4 kDa. It has a coiled coil motif (residues 19 to 201), followed by several potential phosphorylation sites for casein kinase II, protein kinase C or CDK5. Nudel shares about 50% identity with mouse and human NUDE proteins.

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