Data Sheet (Cat.No.TMAB-11032)

TargetMol

Anti-Phospho-NDEL1 (Thr219) Polyclonal Antibody 2

Product Details

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

Applications

Verified Activity:	Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-NDEL1 (Thr219)) Polyclonal Antibody, Unconjugated (TMAB-11032) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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 Thr219
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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