

For Research Use Only

NDE1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84799-4-PBS



Basic Information

Catalog Number: 84799-4-PBS	GenBank Accession Number: BC001421	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 54820	CloneNo.: 242340H4
Source: Rabbit	UNIPROT ID: Q9NXR1	
Isotype: IgG	Full Name: nudE nuclear distribution gene E homolog 1 (A. nidulans)	
Immunogen Catalog Number: AG0336	Calculated MW: 335 aa, 38 kDa	
	Observed MW: 40 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse, rat

Product Information

84799-4-PBS targets NDE1 as part of a matched antibody pair:

MP01589-1: 84799-2-PBS capture and 84799-4-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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.

Storage

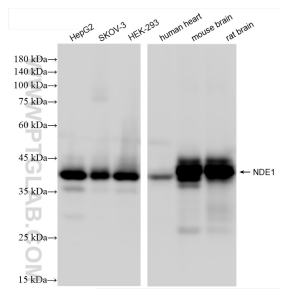
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

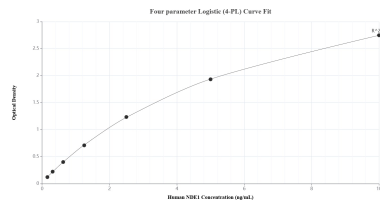
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

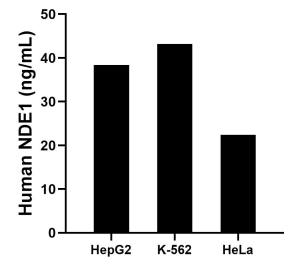
Selected Validation Data



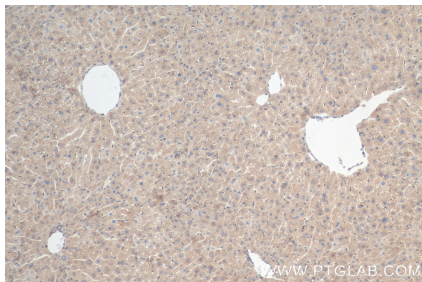
Various lysates were subjected to SDS PAGE followed by western blot with 84799-4-RR (NDE1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84799-4-PBS in a different storage buffer formulation.



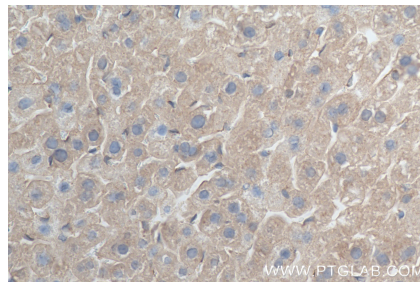
Sandwich ELISA standard curve of MP01589-1, Human NDE1 Recombinant Matched Antibody Pair - PBS only. 84799-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag0336. 84799-4-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL



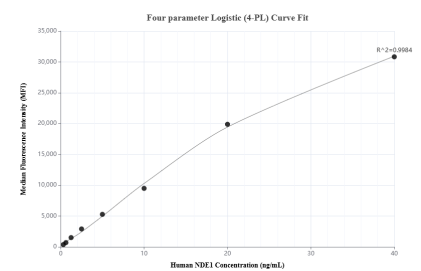
The mean NDE1 concentration was determined to be 38.38 ng/mL in HepG2 cell extract based on a 2.50 mg/mL extract load, 43.20 ng/mL in K-562 cell extract based on a 1.00 mg/mL extract load and 22.42 ng/mL in HeLa cell extract based on a 1.50 mg/mL extract load.



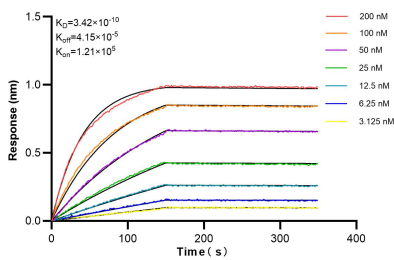
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 84799-4-RR (NDE1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84799-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 84799-4-RR (NDE1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84799-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01589-1, NDE1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84799-2-PBS. Detection antibody: 84799-4-PBS. Standard: Ag0336. Range: 0.313-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84799-4-RR against Human NDE1 were performed. The affinity constant is 0.342 nM.