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Product datasheet for TA396586S

NEDD1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**WB**: 1:10,000 **ELISA**: 1:100,000
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Anti-NEDD1 was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to the 343-667 region of human Nedd1.
Specificity:	This product was adsorbed against GST from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with endogenous Nedd1 protein. A BLAST analysis was used to suggest reactivity with Nedd1 from human, chimpanzee, macaque, marmoset, cattle, rat, and mouse based on a 100% homology with the immunizing sequence. Expect partial reactivity with Nedd1 from turkey, chicken, salmon, and Danio based on a 91% homology with the immunizing sequence. Cross-reactivity with Nedd1 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	40 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.
Gene Name:	neural precursor cell expressed, developmentally down-regulated 1
Database Link:	Entrez Gene 121441 Human Q8NHV4

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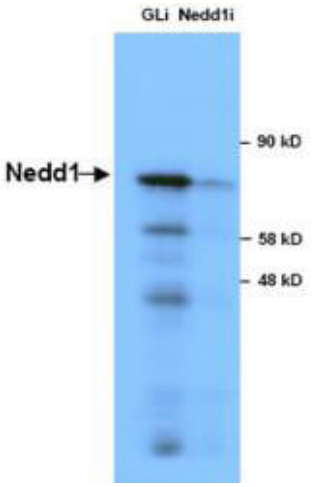
Background: This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Microtubules are polymers of tubulin, which exist as heterodimers of alpha-tubulin and beta-tubulin. NEDD1 (neural precursor expressed, developmentally down-regulated protein1; also called GCP-WD) is a centrosomal protein that in mammals associates with the gamma-tubulin ring complex (gamma-TuRC). Gamma-TuRC is critical for initiation, or nucleation, of the microtubule assembly. In association with this complex, NEDD1 plays an important role in targeting the gamma-TuRC complex to the site of microtubule nucleation and to the mitotic spindle. These events are essential for proper bipolar spindle formation and mitotic progression. Given the casual link between improper spindle function and tumorigenesis, characterization of Nedd1 function will be important to better understand various mechanisms underlying mitotic regulation, chromosome segregation, and cancer development.

Synonyms: GCP-WD, Neural precursor cell expressed developmentally down-regulated protein 1, rabbit anti-NEDD1 Antibody

Note: This antiserum has been tested for use in ELISA and western blotting using a recombinant truncated Nedd1 protein. Specific conditions for reactivity and detection of Nedd1 should be optimized by the end user. Expect a band approximately ~73 kDa in size corresponding to Nedd1 by western blotting in the appropriate cell lysate or extract.

Product images:



Anti-NEDD1 in Western Blot using Rockland Immunochemicals' Anti-NEDD1 Antibody shows detection of a 73 kDa band corresponding to endogenous NEDD1 in lysates of S phase HeLa cells silenced for either control Luciferase or NEDD1. In right lane (NEDD1i): lysates from sh-NEDD1 RNAi-treated lentivirus-infected cells. In left lane (GLi): lysates from sh-Luciferase lentivirus-infected cells as control. Anti-NEDD1 Antibody was used at 1:10,000. Molecular weight estimation was made by comparison by prestained MW markers. ECL was used for detection. Personal communication, Kyung S. Lee, NCI, Bethesda, MD.