

Datasheet for 109-401-C38S**NEDD1 Antibody****Overview**

Description:	Anti-NEDD1 (RABBIT) Antibody - 109-401-C38S
Item No.:	109-401-C38S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	NEDD1
Reactivity:	Human

Immunogen Type:	Recombinant Protein
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.
Purity/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.
Relevant Links:	• NCBI - NP_001128647 • GenelD - 121441

Application Details

Tested Applications:	ELISA, WB
Application 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000
WB:	1:10,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	40 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

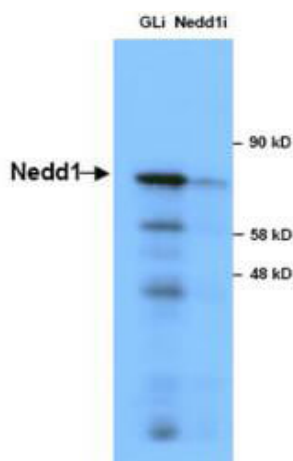
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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.

Expiration: Expiration date is three (3) months from date of receipt.

Images



Western Blot

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.

References

- Chen, F et al. Self-assembly of pericentriolar material in interphase cells lacking centrioles. *ELife* (2022)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.