Datasheet for ABIN964675

anti-NEDD1 antibody

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Overview

Quantity:	100 µL
Target:	NEDD1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEDD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

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. Immunogen Type: RecombinantProtein
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.
Characteristics:	This antibody is designed, produced, and validated as part of a collaboration with 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-

Product Details

	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.
Sterility:	Sterile filtered

Target Details

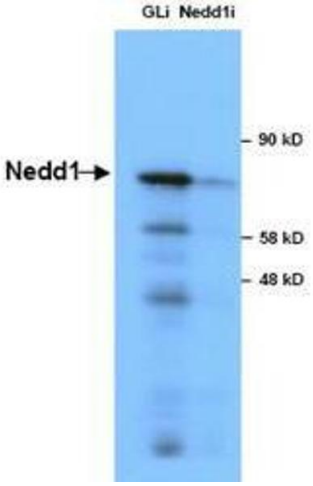
Target:	NEDD1
Alternative Name:	NEDD1 (NEDD1 Products)
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Microtubules are polymers of tubulin, which exist as heterodimers of alpha-tubulin and beta-tubulin. NEDD1 (neural precursor expressed, developmentally down-regulated protein1; also called GCP-WD) is a centrosomal protein that in mammals associates with the gamma-tubulin ring complex (γ-TuRC). γ-TuRC is critical for initiation, or nucleation, of the microtubule assembly. In association with this complex, NEDD1 plays an important role in targeting the γ-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
Gene ID:	121441
NCBI Accession:	NP_001128647
UniProt:	Q8NHV4
Pathways:	M Phase

Application Details

Application Notes:	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.
Comment:	Gene Name: NEDD1
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	40 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is three (3) months from date of opening.
Expiry Date:	3 months



Western Blotting

Image 1. Anti-NEDD1 in Western Blot using 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.

