

Datasheet for ABIN349606 anti-NEDD4 antibody

Image



### Overview

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Quantity:	100 µg
Target:	NEDD4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

## Product Details

Purpose:	NEDD4 Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to an internal portion of the Nedd4 protein. Immunogen Type: Conjugated Peptide
lsotype:	lgG
Cross-Reactivity (Details):	This antibody reacts with endogenous Nedd4 protein.
Characteristics:	Synonyms: rabbit anti-NEDD4 antibody, NEDD-4, NEDD 4, E3 ubiquitin protein ligase Nedd4 antibody, NEDD4-1 antibody, Neural precursor cell expressed developmentally down regulated 4 antibody, Cell proliferation-inducing gene 53 protein, HECT-type E3 ubiquitin transferase NEDD4, PIG53
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography.

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## Product Details

Sterility:

Sterile filtered

# Target Details

Target:	NEDD4
Alternative Name:	NEDD4 (NEDD4 Products)
Background:	<ul> <li>Background: NEDD4 (neural precursor expressed, developmentally down-regulated protein 4, aliases: KIAA0093, MGC176705, NEDD4-1) is a gene that is highly expressed in early embryonic central nervous system. A family of NEDD4-like proteins has more recently been defined.</li> <li>NEDD4 and NEDD4-like proteins contain multiple functional domains including a calcium-dependent phospholipid and membrane binding domain (C2 domain), two to four protein binding domains (WW domains), and an E3 ubiquitin-protein ligase domain (HECT domain).</li> <li>NEDD4 and NEDD4-2 have been shown to down-regulate both neuronal voltage-gated Na+ channels (NaVs) and epithelial Na+ channels (ENaCs) in response to increased intracellular Na-concentrations. The WW domains of NEDD4 bind to PY motifs (amino acid sequence PPXY) found in multiple NaV and ENaC proteins, and ubiquitination of these proteins, mediated by the HECT domain of NEDD4, results in their internalization and removal from the plasma membrane. Mutation of the PY motifs in ENaC proteins is associated with Liddle's Syndrome, an autosomal-dominant form of hypertension. In addition to targeting sodium channels, NEDD4-2 has also been shown to negatively regulate TGF-β signaling by targeting Smad2 for degradation. Mouse and human NEDD4 are cleaved by caspase proteins during apoptosis, although the significance of this cleavage is not clear.</li> </ul>
Gene ID:	4734, 114520609
UniProt:	P46934
Pathways:	Notch Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Skeletal Muscle Fiber Development, Signaling Events mediated by VEGFR1 and VEGFR2
Application Details	
Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and western blotting using recombinant Nedd4 protein. Specific conditions for reactivity and detection of Nedd4 should be optimized by the end user. Expect a band approximately ~115 kDa in size corresponding to Nedd4 by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:300 to 1:500 ELISA Dilution: 1:20,000 - 1:35,000

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Application Details		
	IF Microscopy Dilution: User Optimized	
	Other: User Optimized	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.64 mg/mL	
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2	
	Stabilizer: None	
	Preservative: 0.01 % (w/v) Sodium Azide	
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 -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended	
	storage. 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.	
Expiry Date:	12 months	

#### Images



### Western Blotting

**Image 1.** Western blot using affinity purified anti-Nedd4 antibody shows detection of a 115 kDa band corresponding to endogenous Nedd4 (arrowhead) in MDA-MB-435S cell lysates. The blot was blocked with p/n B501-0500 5% BLOTTO overnight at 4°C. Primary antibody was used at a 1:350 dilution in 5% BLOTTO followed by reaction with a 1:20,000 dilution of HRP goat anti-rabbit IgG in #ABIN925618 Blocking Buffer for Fluorescent Western Blotting. ECL was used for detection.