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Datasheet for ABIN968556

anti-NEDD4 antibody (AA 173-262)

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Overview

Quantity:	50 µg
Target:	NEDD4
Binding Specificity:	AA 173-262
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NEDD4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Nedd4 aa. 173-262
Clone:	15-Nedd4
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	NEDD4
Alternative Name:	Nedd4 (NEDD4 Products)
Background:	<p>Regulated protein degradation involves conjugation of ubiquitin to proteins for degradation by the 26S proteasome. Protein ubiquitination is the end product of a multienzyme cascade that involves sequential thiol-ester bond interactions between ubiquitin and enzymes termed E1-E3. Neuronal precursor cell-expressed developmentally down-regulated 4 (Nedd4) is a multimodular ubiquitin protein ligase E3 that contains a Ca²⁺-lipid binding domain (CaLB), 3 WW domains, and a C-terminal ubiquitin protein ligase hect domain. The CaLB is characteristic of C2 domain-containing proteins, such as PKC, phospholipase C, phospholipase A2, and synaptogamin. Nedd4 is expressed differentially in the fetal and adult brain and its highest expression is in lung and kidney. Although it localizes in the cytoplasm, increased intracellular Ca²⁺ induces plasma membrane association of Nedd4. In addition, increases in intracellular Na⁺ leads to Nedd4 binding to epithelial Na⁺ channels via its WW domains, which results in targeting of Na⁺ channels for degradation. Thus, the subcellular localization and protein interactions of Nedd4 are regulated in a Ca²⁺- and Na⁺-dependent manner. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	110 kDa
Pathways:	Notch Signaling , Intracellular Steroid Hormone Receptor Signaling Pathway , Skeletal Muscle Fiber Development , Signaling Events mediated by VEGFR1 and VEGFR2

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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.

Handling

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

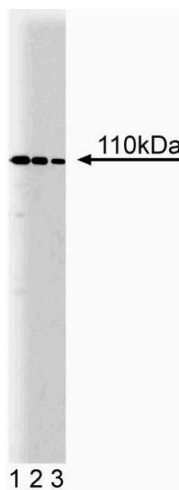
Publications

Product cited in: Peruzzi, Prisco, Morrione, Valentinis, Baserga: "Anti-apoptotic signaling of the insulin-like growth factor-I receptor through mitochondrial translocation of c-Raf and Nedd4." in: **The Journal of biological chemistry**, Vol. 276, Issue 28, pp. 25990-6, (2001) ([PubMed](#)).

Harvey, Dinudom, Komwatana, Jolliffe, Day, Parasivam, Cook, Kumar: "All three WW domains of murine Nedd4 are involved in the regulation of epithelial sodium channels by intracellular Na+." in: **The Journal of biological chemistry**, Vol. 274, Issue 18, pp. 12525-30, (1999) ([PubMed](#)).

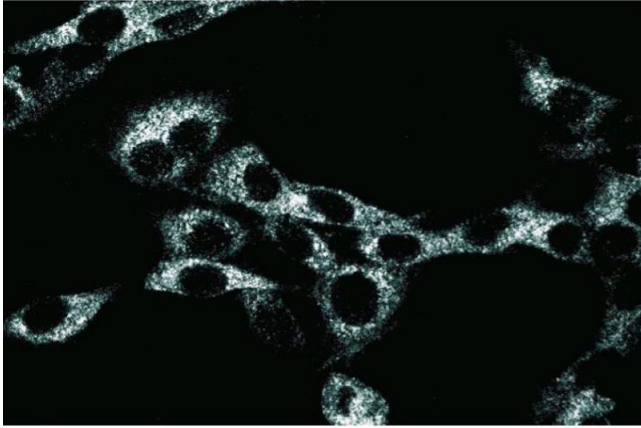
Plant, Yeger, Staub, Howard, Rotin: "The C2 domain of the ubiquitin protein ligase Nedd4 mediates Ca²⁺-dependent plasma membrane localization." in: **The Journal of biological chemistry**, Vol. 272, Issue 51, pp. 32329-36, (1998) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of Nedd4 on a BC3H1 cell lysate (murine skeletal muscle cells). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- Nedd4 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of RSV-3T3 cells.