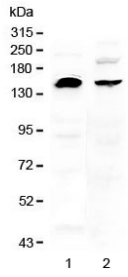
NEDD4 Antibody for WB / NEDD4 Western Blot Antibody (RQ4401)

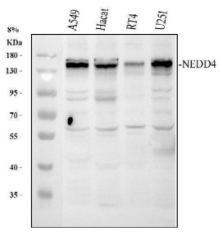
Catalog No.	Formulation	Size
RQ4401	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P46934
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml (recombinant human protein) (BSA-free format available)
Limitations	This NEDD4 Antibody for WB / NEDD4 Western Blot Antibody is available for research use only.



NEDD4 Antibody for WB Human Cell Lysate Western Blot. Western blot analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in human cell lysates using NEDD4 Antibody for WB. Lane 1: U-87 MG cell lysate, Lane 2: MDA-MB-453 cell lysate. A band is detected at approximately 140-150 kDa, consistent with the predicted molecular weight of NEDD4, with a possible lower band near ~95 kDa that may represent a cleavage product or processed isoform. The banding pattern is consistent with reported NEDD4 expression and proteolytic processing behavior observed in human cells.



NEDD4 Antibody Western Blot A549 HaCaT RT4 U251 Cells. Western blot analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in human cell lysates using NEDD4 Antibody for WB. Lane 1: A549 whole cell lysate, Lane 2: HaCaT whole cell lysate, Lane 3: RT4 whole cell lysate, Lane 4: U251 whole cell lysate. A band is detected at approximately 145-150 kDa, consistent with the predicted molecular weight of NEDD4, with additional lower molecular weight bands likely representing cleavage products or isoforms. The banding pattern aligns with reported NEDD4 expression and post-translational processing observed in human cells.

Description

NEDD4 Antibody for WB detects Neural precursor cell expressed developmentally down-regulated protein 4 (NEDD4), a HECT-type E3 ubiquitin ligase that regulates protein stability and signaling through ubiquitin-mediated degradation pathways. NEDD4 plays a critical role in controlling the abundance of membrane receptors, ion channels, and intracellular signaling proteins. A NEDD4 Antibody for WB is widely used to assess protein expression levels in human, mouse, and rat samples, supporting comparative and quantitative analysis across multiple biological systems.

NEDD4 antibody, also referred to as Nedd4 antibody and E3 ubiquitin protein ligase NEDD4 antibody in the literature, recognizes a multidomain protein containing WW domains for substrate recognition and a catalytic HECT domain responsible for ubiquitin transfer. Through these structural features, NEDD4 participates in the regulation of receptor turnover, intracellular signaling cascades, and cellular homeostasis. Western blot analysis using a NEDD4 Antibody for WB enables detection of NEDD4 across a variety of tissues and experimental conditions, making it a reliable tool for evaluating expression changes and pathway activity.

In physiological contexts, NEDD4 regulates key signaling pathways by targeting proteins for ubiquitination and subsequent degradation or recycling. It has been implicated in processes such as growth factor signaling, ion transport regulation, and cellular stress responses. Expression levels of NEDD4 may vary across tissue types and experimental conditions, reflecting its involvement in diverse regulatory networks. Western blot detection provides a robust method for measuring these variations and comparing expression across species and models.

Dysregulation of NEDD4 expression has been associated with altered signaling pathways and disease-related processes, including cancer progression and metabolic dysfunction. Because NEDD4 functions at the level of protein turnover, accurate measurement of its expression is essential for understanding its biological impact. This NEDD4 Antibody for WB supports detection of NEDD4 in research applications and is well suited for studies focused on ubiquitin ligase activity, protein stability, and signaling pathway regulation.

This NEDD4 antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the NEDD4 Antibody for WB / NEDD4 Western Blot Antibody should be determined by the researcher.

Immunogen

A human partial recombinant protein corresponding to amino acids N960-F1245 was used as the immunogen for the NEDD4 antibody.

Storage

After reconstitution, the NEDD4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

NEDD4 antibody, Nedd4 antibody, Neural precursor cell expressed developmentally down-regulated 4 antibody, E3 ubiquitin protein ligase NEDD4 antibody

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