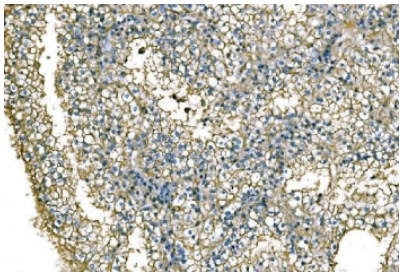
NEDD4 Antibody for IHC / NEDD4 Immunohistochemistry Antibody (RQ6891)

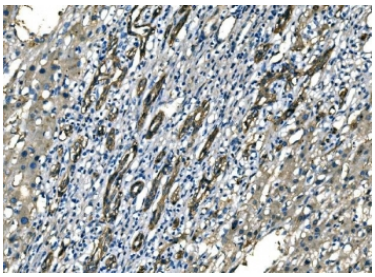
Catalog No.	Formulation	Size
RQ6891	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

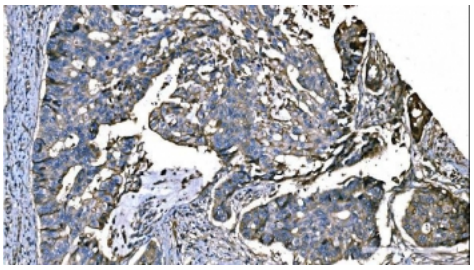
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P46934
Localization	Cytoplasm, cell membrane
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This NEDD4 Antibody for IHC / NEDD4 Immunohistochemistry Antibody is available for research use only.



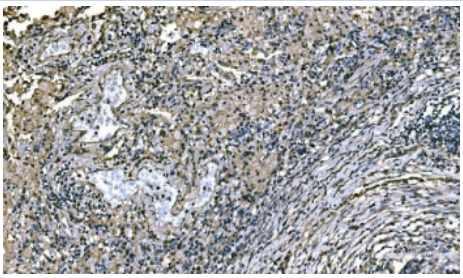
NEDD4 Antibody Renal Cell Carcinoma IHC Tumor Tissue. Immunohistochemistry analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in FFPE human renal cell carcinoma tissue using NEDD4 Antibody for IHC. HRP-DAB brown chromogenic staining demonstrates cytoplasmic and membrane-associated localization in tumor epithelial cells, with variable intensity across the tumor field, while surrounding stromal regions show comparatively reduced signal. The staining pattern highlights tumor cell architecture and supports evaluation of NEDD4 expression within the tumor microenvironment. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



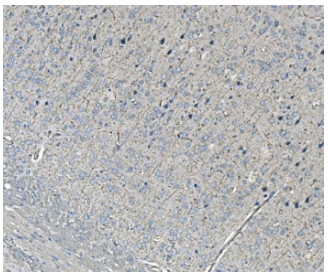
NEDD4 Antibody Liver Cancer IHC Tumor Tissue. Immunohistochemistry analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in FFPE human liver cancer tissue using NEDD4 Antibody for IHC. HRP-DAB brown chromogenic staining demonstrates cytoplasmic and membrane-associated localization in tumor epithelial cells, with heterogeneous staining intensity across tumor regions and reduced signal in surrounding stromal compartments. The staining pattern highlights tumor cell morphology and supports evaluation of NEDD4 expression within hepatic tumor tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



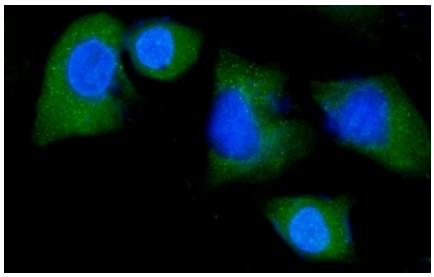
NEDD4 Antibody Colon Adenocarcinoma IHC Tumor Architecture. Immunohistochemistry analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in FFPE human colon adenocarcinoma tissue using NEDD4 Antibody for IHC. HRP-DAB brown chromogenic staining demonstrates cytoplasmic and membrane-associated localization in gland-forming tumor epithelial cells, with variable staining intensity across malignant glands and reduced signal in stromal regions. The staining pattern highlights glandular tumor architecture and supports evaluation of NEDD4 expression in colorectal carcinoma tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



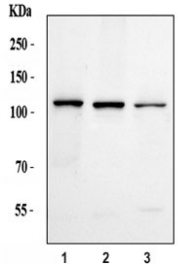
NEDD4 Antibody Lung Cancer IHC Tumor Tissue Analysis. Immunohistochemistry analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in FFPE human lung cancer tissue using NEDD4 Antibody for IHC. HRP-DAB brown chromogenic staining demonstrates cytoplasmic and membrane-associated localization in tumor epithelial cells, with heterogeneous staining across tumor regions and reduced signal in surrounding stromal areas. The staining pattern highlights tumor architecture and supports evaluation of NEDD4 expression within lung carcinoma tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



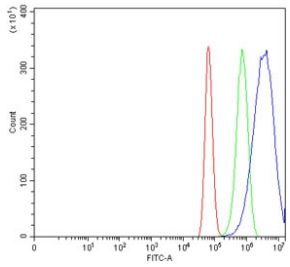
NEDD4 Antibody Rat Brain IHC Neuronal Cytoplasmic Staining. Immunohistochemistry analysis of Neural precursor cell expressed developmentally down-regulated protein 4 / NEDD4 in FFPE rat brain tissue using NEDD4 Antibody for IHC. HRP-DAB brown chromogenic staining demonstrates cytoplasmic localization in neuronal cell bodies distributed throughout the tissue, with lighter background signal in surrounding neuropil and minimal staining in non-neuronal regions. The staining pattern supports neuronal expression of NEDD4 within brain tissue architecture. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



NEDD4 Antibody A549 Cells IF. Immunofluorescent staining of FFPE human A549 cells with NEDD4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



NEDD4 Antibody WB. Western blot testing of human 1) U-251, 2) RT-4 and 3) HaCat cell lysate with NEDD4 antibody. Predicted molecular weight ~149 kDa; commonly observed at 110-149 kDa with a possible ~95 kDa cleavage band.



NEDD4 Antibody U-87 MG Cells FACS. Flow cytometry testing of human U-87 MG cells with NEDD4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NEDD4 antibody.

Description

NEDD4 Antibody for IHC detects Neural precursor cell expressed developmentally down-regulated protein 4 (NEDD4), a HECT-domain E3 ubiquitin ligase that plays a central role in regulating protein turnover, membrane protein trafficking, and intracellular signaling. NEDD4 is broadly expressed across multiple tissue types and is primarily localized to cytoplasmic and membrane-associated compartments, where it mediates ubiquitination of receptors, transporters, and signaling proteins. A NEDD4 Antibody for IHC enables visualization of NEDD4 distribution within intact tissue architecture, providing insight into spatial expression patterns and cellular localization in formalin-fixed, paraffin-embedded specimens.

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 that mediate protein-protein interactions and a catalytic HECT domain responsible for ubiquitin transfer. Through these domains, NEDD4 regulates endocytosis, receptor internalization, and degradation pathways that control cell surface protein levels. In immunohistochemistry, NEDD4 typically demonstrates cytoplasmic staining with occasional membrane-associated enrichment, and staining intensity may vary depending on tissue type, metabolic activity, and signaling state.

Within tissues, NEDD4 expression is observed in epithelial, neuronal, and muscle cell populations, reflecting its involvement in maintaining cellular homeostasis and protein quality control. Immunohistochemical staining using a NEDD4 Antibody for IHC often reveals heterogeneous expression patterns across tissue compartments, with differences between proliferative zones, differentiated cells, and specialized structures. These spatial variations provide important context for understanding how ubiquitin-mediated regulation contributes to tissue organization and function.

NEDD4 also plays a role in regulating signaling pathways that influence cell growth, differentiation, and stress responses. Altered expression or localization has been associated with dysregulated signaling and disease-related processes, including tumor development and altered cellular homeostasis. Because immunohistochemistry preserves tissue structure, it is particularly valuable for identifying changes in protein distribution within the microenvironment. A NEDD4 Antibody for IHC supports detailed analysis of tissue-specific expression patterns and enables investigation of ubiquitin-dependent regulatory mechanisms within histologic sections.

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

Application Notes

Optimal dilution of the NEDD4 Antibody for IHC / NEDD4 Immunohistochemistry Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-A736) 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

Copyright © NSJ Bioreagents. All rights reserved.