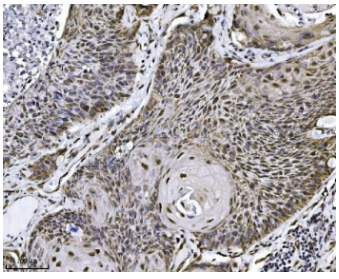
NDFIP2 Antibody 10D6D7 / NEDD4 Interacting Protein 2 Antibody [clone 10D6D7] (RQ7112)

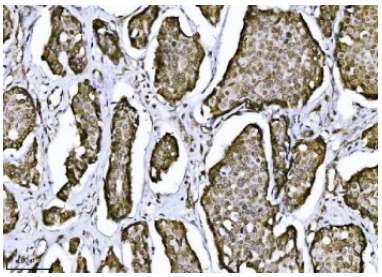
Catalog No.	Formulation	Size
RQ7112	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

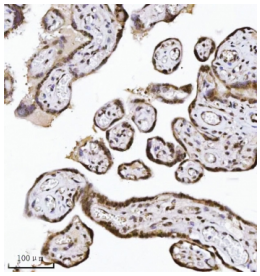
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	10D6D7
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NV92
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This NDFIP2 Antibody 10D6D7 / NEDD4 Interacting Protein 2 Antibody is available for research use only.



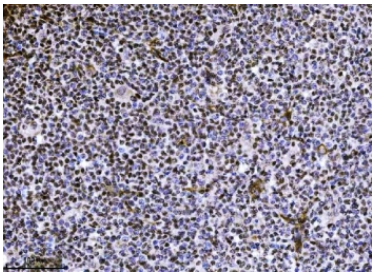
NDFIP2 Antibody 10D6D7 IHC Staining of Human Squamous Cell Lung Carcinoma Tissue. Immunohistochemical analysis of FFPE human squamous cell lung carcinoma tissue using NEDD4 Interacting Protein 2 Antibody clone 10D6D7. Brown DAB staining is observed in numerous tumor cells, with predominantly cytoplasmic immunoreactivity and variable staining along cellular boundaries. Heat-induced epitope retrieval was performed using EDTA buffer at pH 8 for 20 minutes.



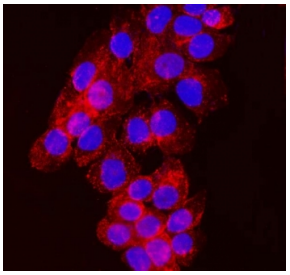
NDFIP2 Antibody 10D6D7 IHC Staining of Human Breast Cancer Tissue. Immunohistochemical analysis of FFPE human breast cancer tissue using NEDD4 Interacting Protein 2 Antibody clone 10D6D7. Brown DAB staining is observed in malignant epithelial cells arranged in glandular and irregular tumor structures, with predominantly cytoplasmic immunoreactivity. Heat-induced epitope retrieval was performed using EDTA buffer at pH 8 for 20 minutes.



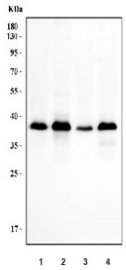
NDFIP2 Antibody 10D6D7 IHC Staining of Human Placental Tissue. Immunohistochemical analysis of FFPE human placental tissue using NEDD4 Interacting Protein 2 Antibody clone 10D6D7. Brown DAB staining is observed in placental villous structures, with immunoreactivity in trophoblast-associated regions and variable staining within the villous tissue. Heat-induced epitope retrieval was performed using EDTA buffer at pH 8 for 20 minutes.



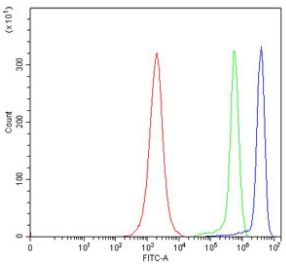
NDFIP2 Antibody 10D6D7 IHC Staining of Human Spleen Tissue. Immunohistochemical analysis of FFPE human spleen tissue using NEDD4 Interacting Protein 2 Antibody clone 10D6D7. Brown DAB staining is distributed among cells within the splenic parenchyma, with cytoplasmic immunoreactivity visible in scattered cellular populations. Heat-induced epitope retrieval was performed using EDTA buffer at pH 8 for 20 minutes.



NDFIP2 Antibody 10D6D7 Immunofluorescence Staining of Human A431 Cells. Immunofluorescence analysis of FFPE human A431 cells using NEDD4 Interacting Protein 2 Antibody clone 10D6D7. Red fluorescence is distributed throughout the cytoplasmic regions, with areas of punctate and perinuclear staining, while DAPI counterstaining identifies cell nuclei in blue. Heat-induced epitope retrieval was performed using citrate buffer at pH 6 for 20 minutes.



NDFIP2 Antibody 10D6D7 Western Blot Analysis of A549, HepG2, MCF7 and HeLa Cell Lysates. Western blot analysis of human A549 (lane 1), HepG2 (lane 2), MCF7 (lane 3), and HeLa (lane 4) cell lysates using NEDD4 Interacting Protein 2 Antibody clone 10D6D7. Immunoreactive bands are detected at approximately 36-38 kDa across all four samples, consistent with the predicted molecular weight of approximately 36 kDa for NDFIP2.



NDFIP2 Antibody 10D6D7 FACS Staining of Human JK Cells. Flow cytometry analysis of human JK cells using NEDD4 Interacting Protein 2 Antibody clone 10D6D7 at 1 ug per 10^6 cells following blocking with goat serum. The blue histogram represents antibody-stained cells, the green histogram represents the isotype control, and the red histogram represents unstained cells. A rightward fluorescence shift is observed in the antibody-stained population relative to both controls, supporting detection of NDFIP2 in the tested cells.

Description

NDFIP2 Antibody 10D6D7 / NEDD4 Interacting Protein 2 Antibody recognizes NDFIP2, a membrane-associated regulatory protein encoded by the NDFIP2 gene. Also known as NEDD4 family-interacting protein 2, NDFIP2 belongs to a small family of proteins that interact with NEDD4-family E3 ubiquitin ligases. These enzymes catalyze the attachment of ubiquitin to substrate proteins, influencing their stability, localization, and intracellular trafficking. NDFIP2 functions as an adaptor and regulatory partner for ubiquitin ligases, helping coordinate ubiquitin-dependent processes associated with cellular membranes.

NDFIP2 is an integral membrane protein containing three transmembrane segments and an N-terminal cytoplasmic region with PY motifs. These proline-rich motifs interact with WW domains found in NEDD4-family ubiquitin ligases, including NEDD4, NEDD4L, and ITCH. Through these interactions, NDFIP2 can recruit and regulate ubiquitin ligases at intracellular membranes, influencing the modification and trafficking of associated proteins. Unlike enzymes that directly catalyze ubiquitin transfer, NDFIP2 primarily contributes to ligase recruitment, substrate regulation, and the spatial organization of ubiquitination reactions.

NDFIP2 localizes predominantly to intracellular membrane compartments associated with the Golgi apparatus and endosomal system. Its membrane localization allows it to participate in protein sorting and trafficking pathways involving ubiquitin-dependent regulation. NDFIP2 has been implicated in controlling membrane protein turnover and coordinating interactions between ubiquitin ligases and their substrates. Functional relationships between NDFIP2 and its related family member NDFIP1 have also been investigated. Although these proteins share structural features and the ability to interact with NEDD4-family ligases, they can differ in their expression patterns, regulatory interactions, and biological activities.

NDFIP2 is of interest in research investigating protein homeostasis, receptor regulation, and intracellular signaling. Ubiquitin-dependent trafficking influences the abundance and localization of numerous membrane proteins, affecting how cells respond to extracellular signals and environmental changes. Alterations in these regulatory mechanisms can influence cellular proliferation, differentiation, and stress responses. Research involving NDFIP2 Antibody 10D6D7 supports investigations of NDFIP2 expression, its association with intracellular membrane compartments, and its role in coordinating ubiquitin-mediated protein regulation.

NDFIP2 coordinates ubiquitin-dependent protein regulation and intracellular membrane trafficking, making it an important target in cell biology research.

Application Notes

Optimal dilution of the NDFIP2 Antibody 10D6D7 / NEDD4 Interacting Protein 2 Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M16-L336) was used as the immunogen for the NDFIP2 antibody.

Storage

After reconstitution, the NDFIP2 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 family-interacting protein 2 antibody, NEDD4 family interacting protein 2 antibody, NEDD4 family-interacting protein 2 monoclonal antibody, NDFIP2 protein antibody, NDFIP2 ubiquitin ligase adaptor antibody, NEDD4 interacting protein 2 antibody, NEDD4 family interacting protein 2 clone 10D6D7 antibody

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