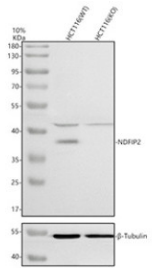
NDFIP2 Polyclonal Antibody / NEDD4 Interacting Protein 2 Antibody (FY13690)

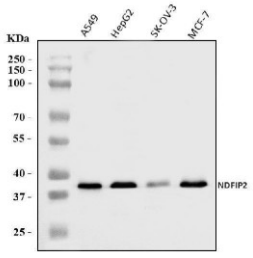
Catalog No.	Formulation	Size
FY13690	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

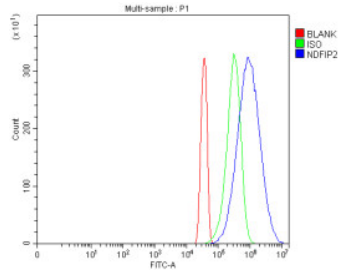
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9NV92
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This NDFIP2 Polyclonal Antibody / NEDD4 Interacting Protein 2 Antibody is available for research use only.



NDFIP2 Polyclonal Antibody Western Blot Validation in HCT116 Wild-Type and NDFIP2 Knockout Cells. Western blot analysis of human HCT116 wild-type (WT, lane 1) and NDFIP2 knockout (KO, lane 2) whole-cell lysates using NEDD4 Interacting Protein 2 Antibody at 0.5 ug/ml. An immunoreactive band at approximately 38 kDa is detected in the WT lysate and absent in the KO sample, supporting antibody recognition of NDFIP2. Beta-tubulin serves as the loading control.



NDFIP2 Polyclonal Antibody Western Blot Analysis of A549, HepG2, SK-OV-3 and MCF-7 Cell Lysates. Western blot analysis of human A549 (lane 1), HepG2 (lane 2), SK-OV-3 (lane 3), and MCF-7 (lane 4) whole-cell lysates using NEDD4 Interacting Protein 2 Antibody at 0.5 ug/ml. Immunoreactive bands are detected at approximately 38 kDa in all four samples, consistent with the NDFIP2-dependent band identified in the HCT116 knockout validation.



NDFIP2 Polyclonal Antibody FACS Staining of Human Cells. Flow cytometry analysis of human cells using NEDD4 Interacting Protein 2 Antibody. NDFIP2 is an intracellular membrane-associated protein, and this assay is intended for detection in fixed and permeabilized cells.

Description

NDFIP2 Polyclonal Antibody / NEDD4 Interacting Protein 2 Antibody targets NDFIP2, a membrane-associated protein encoded by the NDFIP2 gene. Also known as NEDD4 family-interacting protein 2, NDFIP2 regulates the activity and localization of NEDD4-family E3 ubiquitin ligases, which attach ubiquitin to substrate proteins and influence their stability, trafficking, and degradation. NDFIP2 functions as an adaptor protein that connects ubiquitin ligases with membrane-associated regulatory processes. Through these interactions, it contributes to the organization of ubiquitin-dependent protein sorting and the maintenance of cellular protein homeostasis.

NDFIP2 contains three transmembrane segments and an N-terminal cytoplasmic region with PY motifs that interact with the WW domains of NEDD4-family ubiquitin ligases. These interactions allow NDFIP2 to recruit ligases such as NEDD4, NEDD4L, and ITCH to intracellular membrane compartments. NDFIP2 can influence ubiquitin ligase activity and facilitate the modification of proteins involved in membrane trafficking and cellular signaling. Rather than directly catalyzing ubiquitin transfer, NDFIP2 regulates where and how these enzymatic reactions occur, providing spatial control over ubiquitin-mediated protein regulation.

NDFIP2 is associated with intracellular membranes, particularly compartments involved in endosomal sorting and Golgi-associated trafficking. Its localization supports interactions between ubiquitin ligases and membrane proteins undergoing intracellular transport or degradation. NDFIP2 shares structural and functional similarities with NDFIP1, another NEDD4-family interacting protein, although their biological roles are not necessarily interchangeable. Differences in protein expression, intracellular distribution, and regulatory interactions may allow these related adaptors to influence distinct sets of ubiquitination-dependent processes. The activity of NDFIP2 is therefore relevant to understanding how cells coordinate protein turnover with membrane organization and signaling responses.

Ubiquitin-dependent trafficking regulates the abundance and localization of many receptors, transporters, and signaling proteins. Changes in these processes can affect cellular responses to extracellular signals, metabolic conditions, and environmental stress. NDFIP2 has been investigated in connection with ubiquitin ligase regulation, intracellular protein sorting, and signaling pathway organization. Its interactions with NEDD4-family proteins place it within a broader network of mechanisms that control membrane protein homeostasis. Research involving NDFIP2 Polyclonal Antibody contributes to investigations of NDFIP2 expression, intracellular localization, and the regulatory relationships between ubiquitin ligases and their membrane-associated adaptor proteins.

For an alternative monoclonal antibody targeting this ubiquitin-regulatory protein, see our NDFIP2 Antibody 10D6D7, validated for western blot, immunohistochemistry, immunofluorescence, and flow cytometry.

Application Notes

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

Immunogen

E. Coli-derived human NEDD4 Interacting Protein 2 recombinant protein (amino acids M16-L336) was used as the immunogen for the NDFIP2 Polyclonal Antibody.

Storage

After reconstitution, the NDFIP2 Polyclonal 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 interacting protein 2 antibody, NDFIP2 protein antibody, NEDD4 family ubiquitin ligase adaptor antibody, NEDD4 family-interacting protein 2 polyclonal antibody

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