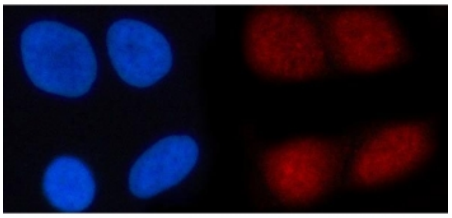
N4BP1 Antibody / NEDD4-binding protein 1 / KIAA0615 (RQ8184)

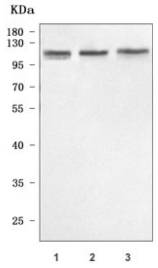
Catalog No.	Formulation	Size
RQ8184	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

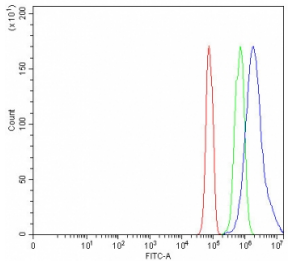
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O75113
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This N4BP1 antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with N4BP1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HepG2, 2) RT4 and 3) Jurkat cell lysate with N4BP1 antibody. Predicted molecular weight ~100 kDa.



Flow cytometry testing of fixed and permeabilized human JK cells with N4BP1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= N4BP1 antibody.

Description

Nedd4-binding partner-1 (N4BP1) has been identified as a protein interactor and a substrate of the homologous to E6AP C terminus (HECT) domain-containing E3 ubiquitin-protein ligase (E3), Nedd4. Here, we describe a previously unrecognized functional interaction between N4BP1 and Itch, a Nedd4 structurally related E3, which contains four WW domains, conferring substrate-binding activity. We show that N4BP1 association with the second WW domain (WW2) of Itch interferes with E3 binding to its substrates. In particular, we found that N4BP1 and p73?, a target of Itch-mediated ubiquitin/proteasome proteolysis, share the same binding site. By competing with p73? for binding to the WW2 domain, N4BP1 reduces the ability of Itch to recruit and ubiquitylate p73? and inhibits Itch autoubiquitylation activity both in in vitro and in vivo ubiquitylation assays.

Application Notes

Optimal dilution of the N4BP1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-K885) was used as the immunogen for the N4BP1 antibody.

Storage

After reconstitution, the N4BP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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