

Product datasheet for **AP21078PU-S**

N4BP1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of N4BP1 protein. (region surrounding Tyr415)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 100 kDa
Gene Name:	NEDD4 binding protein 1
Database Link:	<u>Entrez Gene 9683 Human O75113</u>



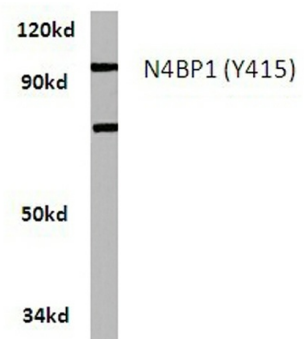
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Background:

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 p73alpha, a target of Itch-mediated ubiquitin/proteasome proteolysis, share the same binding site. By competing with p73alpha for binding to the WW2 domain, N4BP1 reduces the ability of Itch to recruit and ubiquitylate p73alpha and inhibits Itch autoubiquitylation activity both in in vitro and in vivo ubiquitylation assays.

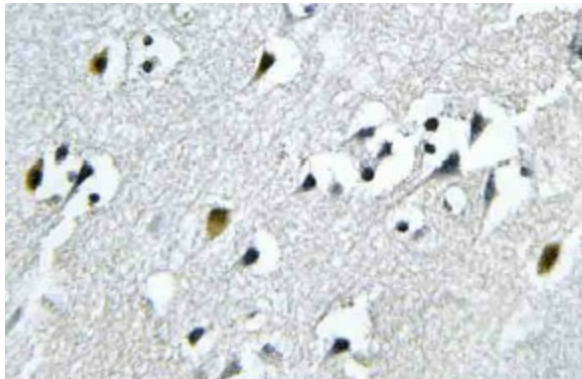
Synonyms:

KIAA0615

Product images:


HeLa whole cell lysate
N4BP1 (Y415) pAb at 1:500 dilution

Western blot (WB) analysis of N4BP1 antibody (Cat.-No.: [AP21078PU-N]) in extracts from HeLa cells.



Immunohistochemistry (IHC) analyzes of N4BP1 antibody (Cat.-No.: [AP21078PU-N]) in paraffin-embedded human brain tissue.