# N4BP1 (Y415) polyclonal antibody

Catalog: BCP01161 Host: Rabbit Reactivity: Human,Mouse,Rat

## 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 p73α, a target of Itch-mediated ubiquitin/proteasome proteolysis, share the same binding site. By competing with p73α for binding to the WW2 domain, N4BP1 reduces the ability of Itch to recruit and ubiquitylate p73α and inhibits Itch autoubiquitylation activity both in in vitro and in vivo ubiquitylation assays.

## Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

## Molecular Weight:

~ 100 kDa

## Swiss-Prot:

O75113

## Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

## Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

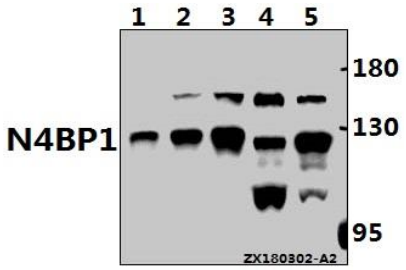
## Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

## Specificity:

N4BP1 (Y415) polyclonal antibody detects endogenous levels of N4BP1 protein.

## DATA:




Western blot (WB) analysis of N4BP1 (Y415) pAb at 1:1000 dilution

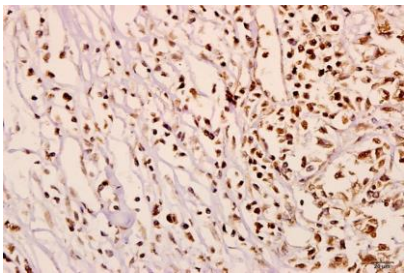
Lane1:A2780 whole cell lysate(20ug)

Lane2:A549 whole cell lysate(20ug)

Lane3:HEK293 whole cell lysate(20ug)

Lane4:PC12 whole cell lysate(40ug)

Lane5:AML-12 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of N4BP1 (Y415) pAb in paraffin-embedded human breast carcinoma tissue at 1:50.

## Note:

For research use only, not for use in diagnostic procedure.

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