

# Anti-N4BP1 Antibody

Catalog # AP51377

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IP            |
| Primary Accession | <a href="#">O75113</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 100379                 |

## Additional Information

|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 9683                                                                                                                                 |
| Other Names        | KIAA0615; NEDD4-binding protein 1; N4BP1                                                                                             |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human N4BP1. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IP~~N/A                                                                                       |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                            |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                            |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | N4BP1 ( <a href="#">HGNC:29850</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Function          | Potent suppressor of cytokine production that acts as a regulator of innate immune signaling and inflammation. Acts as a key negative regulator of select cytokine and chemokine responses elicited by TRIF-independent Toll-like receptors (TLRs), thereby limiting inflammatory cytokine responses to minor insults. In response to more threatening pathogens, cleaved by CASP8 downstream of TLR3 or TLR4, leading to its inactivation, thereby allowing production of inflammatory cytokines (By similarity). Acts as a restriction factor against some viruses, such as HIV-1: restricts HIV-1 replication by binding to HIV-1 mRNAs and mediating their degradation via its ribonuclease activity (PubMed: <a href="#">31133753</a> ). Also acts as an inhibitor of the E3 ubiquitin-protein ligase ITCH: acts by interacting with the second WW domain of ITCH, leading to compete with ITCH's substrates and impairing ubiquitination of substrates (By similarity). |
| Cellular Location | Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q6A037}. Nucleus {ECO:0000250 UniProtKB:Q6A037} Nucleus, nucleolus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

{ECO:0000250|UniProtKB:Q6A037}. Nucleus, PML body  
{ECO:0000250|UniProtKB:Q6A037}. Note=Primarily localizes to the nucleolus.  
Also localizes to the PML nuclear bodies, when desumoylated  
{ECO:0000250|UniProtKB:Q6A037}

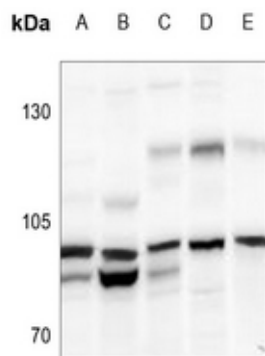
## Tissue Location

Detected in heart, lung, brain, liver, skeletal muscle, pancreas, kidney, spleen, testis and ovary

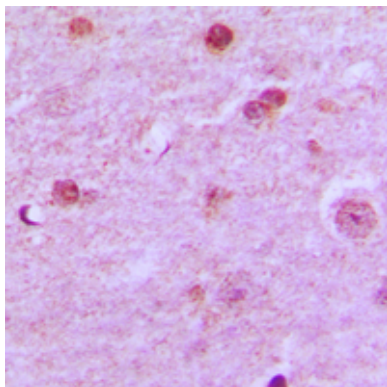
## References

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Martin J.,et al.Nature 432:988-994(2004).  
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).  
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).  
Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009).

## Images



Western blot analysis of N4BP1 expression in AML12 (A), PC12 (B), HEK293T (C), A549 (D), A2780 (E) whole cell lysates. (Predicted band size: 100 kD; Observed band size: 100 kD)



Immunohistochemical analysis of N4BP1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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