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N4BP1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP10518a

Specification

N4BP1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	O75113
Other Accession	NP_694574.3

N4BP1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 9683

Other Names
NEDD4-binding protein 1, N4BP1, N4BP1, KIAA0615

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

N4BP1 Antibody (N-term) Blocking Peptide - Protein Information

Name N4BP1 (HGNC:29850)

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:31133753). 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

N4BP1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

N4BP1 Antibody (N-term) Blocking Peptide - Images

N4BP1 Antibody (N-term) Blocking Peptide - Background

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).

N4BP1 Antibody (N-term) Blocking Peptide - References

Enjuanes, A., et al. Cancer Res. 68(24):10178-10186(2008)Matsuoka, S., et al. Science 316(5828):1160-1166(2007)Anantharaman, V., et al. RNA Biol 3(1):18-27(2006)Murillas, R., et al. J. Biol. Chem. 277(4):2897-2907(2002)