10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TNIP1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16988b

Specification

TNIP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q15025

TNIP1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10318

Other Names
TNFAIP3-interacting protein 1, A20-binding inhibitor of NF-kappa-B activation 1, ABIN-1, HIV-1 Nef-interacting protein, Nef-associated factor 1, Naf1, Nip40-1, Virion-associated nuclear shuttling protein, VAN, hVAN, TNIP1, KIAA0113, NAF1

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.

TNIP1 Antibody (C-term) Blocking Peptide - Protein Information

Name TNIP1

Synonyms KIAA0113, NAF1

Function
Inhibits NF-kappa-B activation and TNF-induced NF-kappa-B- dependent gene expression by regulating TAX1BP1 and A20/TNFAIP3- mediated deubiquitination of IKBKG; proposed to link A20/TNFAIP3 to ubiquitinated IKBKG (PubMed:21885437). Involved in regulation of EGF- induced ERK1/ERK2 signaling pathway; blocks MAPK3/MAPK1 nuclear translocation and MAPK1-dependent transcription. Increases cell surface CD4(T4) antigen expression. Involved in the anti-inflammatory response of macrophages and positively regulates TLR-induced activation of CEBPB. Involved in the prevention of autoimmunity; this function implicates binding to polyubiquitin. Involved in leukocyte integrin activation during inflammation; this function is mediated by association with SELPLG and dependent on phosphorylation by SRC-family kinases. Interacts with HIV-1 matrix protein and is packaged into virions and overexpression can inhibit viral replication. May regulate matrix nuclear localization, both nuclear import of PIC (Preintegration complex) and export of GAG polyprotein and viral genomic RNA during virion production. In case of infection, promotes association of IKBKG with Shigella flexneri

E3 ubiquitin-protein ligase ipah9.8 p which in turn promotes polyubiquitination of IKBKG leading to its proteasome- dependent degradation and thus is perturbing NF-kappa-B activation during bacterial infection.

Cellular Location
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and cytoplasm in a CRM1-dependent manner

Tissue Location
Ubiquitous. Strongly expressed in peripheral blood lymphocytes, spleen and skeletal muscle, and is weakly expressed in the brain. In peripheral blood mononucleocytes, isoform 4 is mainly expressed and isoform 1 and isoform 7 are almost not expressed Expression of isoform 1 and isoform 7 increases in leukemic cells

TNIP1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

TNIP1 Antibody (C-term) Blocking Peptide - Images

TNIP1 Antibody (C-term) Blocking Peptide - Background

Interacts with zinc finger protein A20/TNFAIP3 and inhibits TNF-induced NF-kappa-B-dependent gene expression by interfering with an RIP-or TRAF2-mediated transactivation signal (By similarity). Increases cell surface CD4(T4) antigen expression. Interacts with HIV-1 matrix protein and is packaged into virions and overexpression can inhibit viral replication. May regulate matrix nuclear localization, both nuclear import of PIC (Preintegration complex) and export of GAG polyprotein and viral genomic RNA during virion production.

TNIP1 Antibody (C-term) Blocking Peptide - References

He, C.F., et al. Lupus 19(10):1181-1186(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009)Gateva, V., et al. Nat. Genet. 41(11):1228-1233(2009)Han, J.W., et al. Nat. Genet. 41(11):1234-1237(2009)