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

TNIP1 Rabbit pAb

Catalog # AP98163

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q15025
Other Accession	Q15025
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71864
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TNIP1
Epitope Specificity	351-450/636
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Cytoplasm. Nucleus. Shuttles between the nucleus and cytoplasm in a CRM1-dependent manner.
SUBUNIT	Interacts with TNFAIP3 and IKBKG; facilitates TNFAIP3-mediated de-ubiquitination of NEMO/IKBKG. Interacts with HIV-1 matrix protein. Interacts with Shigella flexneri ipah9.8; the interaction promotes polyubiquitination of IKBKG. Interacts with polyubiquitin. Interacts with MAPK1, SELPLG and PIK3CD. Interacts with IKBKG (polyubiquitinated). Interacts with IRAK1 (polyubiquitinated). Interacts with MYD88; the interaction is indicative for participation in an activated TLR-signaling complex
Post-translational modifications	Phosphorylation at Tyr-552 by SRC-family kinases recruits phosphoinositide-3-kinase (PI3K) PIK3CD:p85 heterodimer which results in integrin activation and leukocyte adhesion to activated endothelium during inflammation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Abin-1 is a 636 amino acid protein that localizes to both the nucleus and the cytoplasm and is shuttled between the two intercellular regions in a CRM1-dependent manner. Expressed ubiquitously with highest expression in spleen and skeletal muscle, Abin-1 interacts with A20 and, via this interaction, interferes with TRAF2-mediated transactivation signals and effectively inhibits TNF-induced NF x B expression. Additionally, Abin-1 can be incorporated into HIV-1 virions and, if overexpressed, can inhibit viral replication. Abin-1 may also play an important role in the regulation of nuclear import and export activities. Multiple isoforms of Abin-1 exist due to alternative splicing events.

Additional Information

Gene ID	10318

Other Names	ABIN-1; NAF1; VAN; nip40-1; TNIP1_HUMAN; TNIP1; A20-binding inhibitor of NF-kappa-B activation 1 (ABIN-1); HIV-1 Nef-interacting protein; Nef-associated factor 1 (Naf1); Virion-associated nuclear shuttling protein (VAN | hVAN); KIAA0113; TNFAIP3 interacting protein 1; virion-associated nuclear-shuttling protein; Nef-associated factor 1 SNP
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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