

**TRIM22 Antibody(N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19529a****Specification**

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**TRIM22 Antibody(N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IYM9</a>
Other Accession	<a href="#">NP_006065.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56947
Antigen Region	67-96

**TRIM22 Antibody(N-term) - Additional Information****Gene ID** 10346**Other Names**

E3 ubiquitin-protein ligase TRIM22, 632-, 50 kDa-stimulated trans-acting factor, RING finger protein 94, Staf-50, Tripartite motif-containing protein 22, TRIM22, RNF94, STAF50

**Target/Specificity**

This TRIM22 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-96 amino acids from the N-terminal region of human TRIM22.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TRIM22 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRIM22 Antibody(N-term) - Protein Information****Name** TRIM22

**Synonyms** RNF94, STAF50

**Function** Interferon-induced E3 ubiquitin ligase that plays important roles in innate and adaptive immunity (PubMed:[25683609](#), PubMed:[35777501](#)). Restricts the replication of many viruses including HIV-1, encephalomyocarditis virus (EMCV), hepatitis B virus (HBV), hepatitis C virus (HCV) or Zika virus (ZIKV) (PubMed:[25683609](#), PubMed:[35777501](#), PubMed:[36042495](#)). Mechanistically, negatively regulates HCV replication by promoting ubiquitination and subsequent degradation of viral NS5A (PubMed:[25683609](#)). Also acts by promoting the degradation of Zika virus NS1 and NS3 proteins through proteasomal degradation (PubMed:[36042495](#)). Acts as a suppressor of basal HIV-1 LTR- driven transcription by preventing Sp1 binding to the HIV-1 promoter (PubMed:[26683615](#)). Also plays a role in antiviral immunity by co- regulating together with NT5C2 the RIGI/NF-kappa-B pathway by promoting 'Lys-63'-linked ubiquitination of RIGI, while NT5C2 is responsible for 'Lys-48'-linked ubiquitination of RIGI (PubMed:[36159777](#)). Participates in adaptive immunity by suppressing the amount of MHC class II protein in a negative feedback manner in order to limit the extent of MHC class II induction (PubMed:[35777501](#)).

**Cellular Location**

Cytoplasm. Nucleus Nucleus speckle. Nucleus, Cajal body. Note=Localizes predominantly to the nucleus, found in cytoplasm to some extent. Forms distinct nuclear bodies that undergo dynamic changes during cell cycle progression Nuclear bodies start to form in the early G0/G1 phase but become speckle-like in the S-phase and completely dispersed in mitosis. 35% of TRIM22 nuclear bodies overlap or are found adjacent to Cajal bodies

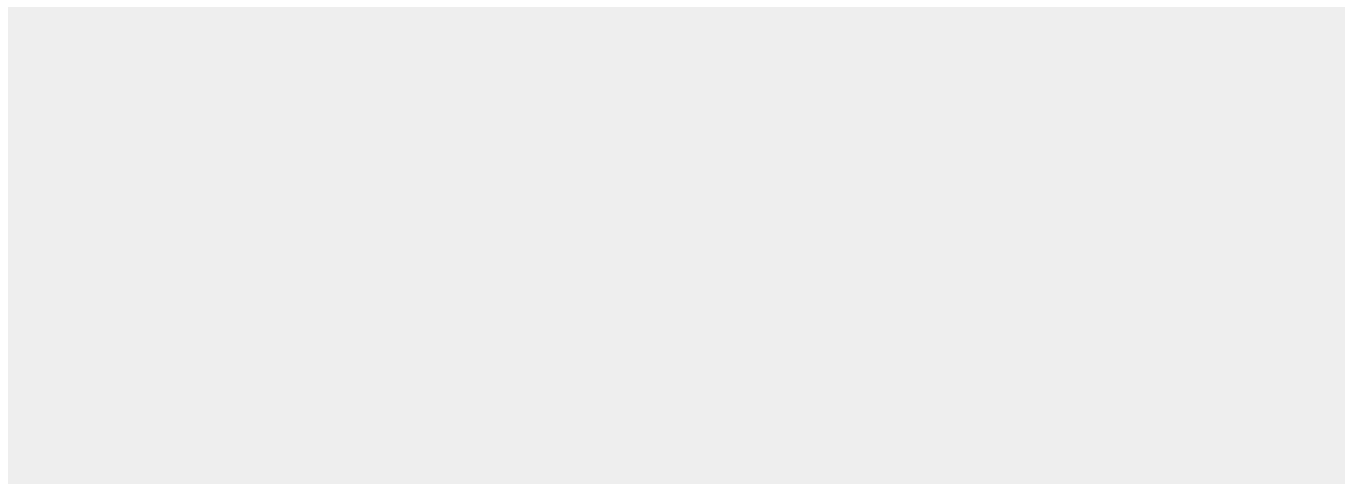
**Tissue Location**

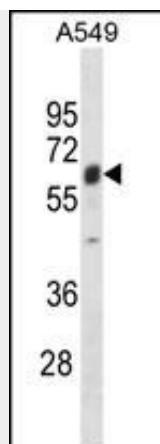
Strongly expressed in peripheral blood leukocytes, spleen, thymus, and ovary. Expressed at basal levels in other tissues

**TRIM22 Antibody(N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TRIM22 Antibody(N-term) - Images**



TRIM22 Antibody (N-term) (Cat. #AP19529a) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the TRIM22 antibody detected the TRIM22 protein (arrow).

#### **TRIM22 Antibody(N-term) - Background**

The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein localizes to the cytoplasm and its expression is induced by interferon. The protein down-regulates transcription from the HIV-1 LTR promoter region, suggesting that function of this protein may be to mediate interferon's antiviral effects.

#### **TRIM22 Antibody(N-term) - References**

Kajaste-Rudnitski, A., et al. Amino Acids 39(1):1-9(2010)  
Petersson, J., et al. Exp. Cell Res. 316(4):568-579(2010)  
Ovsyannikova, I.G., et al. Hum. Genet. 127(2):207-221(2010)  
Ovsyannikova, I.G., et al. J. Infect. Dis. 201(2):207-213(2010)  
Gao, B., et al. Hepatology 50(2):424-433(2009)

#### **TRIM22 Antibody(N-term) - Citations**

- [TRIM22 regulates macrophage autophagy and enhances Mycobacterium tuberculosis clearance by targeting the nuclear factor-multiplicity κB/beclin 1 pathway.](#)