

TRIM56 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11813b**Specification**

TRIM56 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q9BRZ2](#)**TRIM56 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 81844**Other Names**

E3 ubiquitin-protein ligase TRIM56, 632-, RING finger protein 109, Tripartite motif-containing protein 56, TRIM56, RNF109

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.

TRIM56 Antibody (C-term) Blocking peptide - Protein Information**Name** TRIM56 {ECO:0000303|PubMed:21289118, ECO:0000312|HGNC:HGNC:19028}**Function**

E3 ubiquitin-protein ligase that plays a key role in innate antiviral immunity by mediating ubiquitination of CGAS and STING1 (PubMed:21289118, PubMed:29426904). In response to pathogen- and host- derived double-stranded DNA (dsDNA), targets STING1 to 'Lys-63'-linked ubiquitination, thereby promoting its homodimerization, a step required for the production of type I interferon IFN-beta (By similarity). Also mediate monoubiquitination of CGAS, thereby promoting CGAS oligomerization and subsequent activation (PubMed:29426904). Promotes also TNFalpha-induced NF-kappa-B signaling by mediating 'Lys-63'-linked ubiquitination TAK1, leading to enhanced interaction between TAK1 and CHUK/IKKalpha (PubMed:35952808). Independently of its E3 ubiquitin ligase activity, positive regulator of TLR3 signaling. Potentiates extracellular double stranded RNA (dsRNA)-induced expression of IFNB1 and interferon-stimulated genes ISG15, IFIT1/ISG56, CXCL10, OASL and CCL5/RANTES (PubMed:22948160). Promotes establishment of an antiviral state by TLR3 ligand and TLR3-mediated chemokine induction following infection by hepatitis C virus (PubMed:22948160). Acts as a restriction factor of Zika virus through direct interaction with the viral RNA via its C-terminal region (PubMed:31251739).

Cellular Location

Cytoplasm.

Tissue Location

Widely expressed (at protein level).

TRIM56 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TRIM56 Antibody (C-term) Blocking peptide - Images**TRIM56 Antibody (C-term) Blocking peptide - 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. The protein localizes to cytoplasmic bodies. Its function has not been identified. Alternate splicing of this gene generates two transcript variants encoding different isoforms.

TRIM56 Antibody (C-term) Blocking peptide - References

Tanji, K., et al. Neurobiol. Dis. 38(2):210-218(2010) Rose, J. Phd, et al. Mol. Med. (2010) In press : Li, Y., et al. J. Biol. Chem. 276(44):40824-40833(2001) Reymond, A., et al. EMBO J. 20(9):2140-2151(2001) Ohara, O., et al. DNA Res. 4(1):53-59(1997)