

TRIM25 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16857c**Specification**

TRIM25 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q14258](#)**TRIM25 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 7706**Other Names**

E3 ubiquitin/ISG15 ligase TRIM25, 632n3, Estrogen-responsive finger protein, RING finger protein 147, Tripartite motif-containing protein 25, Ubiquitin/ISG15-conjugating enzyme TRIM25, Zinc finger protein 147, TRIM25, EFP, RNF147, ZNF147

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.

TRIM25 Antibody (Center) Blocking Peptide - Protein Information**Name** TRIM25**Synonyms** EFP {ECO:0000303|PubMed:8248217}, RNF147**Function**

Functions as a ubiquitin E3 ligase and as an ISG15 E3 ligase (PubMed:16352599). Involved in innate immune defense against viruses by mediating ubiquitination of RIGI and IFIH1 (PubMed:17392790, PubMed:30193849, PubMed:33849980, PubMed:29357390, PubMed:31710640, PubMed:36045682). Mediates 'Lys-63'-linked polyubiquitination of the RIGI N-terminal CARD-like region and may play a role in signal transduction that leads to the production of interferons in response to viral infection (PubMed:17392790, PubMed:23950712). Mediates 'Lys-63'- linked polyubiquitination of IFIH1 (PubMed:<a

[30193849](http://www.uniprot.org/citations/30193849)). Promotes ISGylation of 14-3-3 sigma (SFN), an adapter protein implicated in the regulation of a large spectrum signaling pathway (PubMed: [16352599](http://www.uniprot.org/citations/16352599), PubMed: [17069755](http://www.uniprot.org/citations/17069755)). Mediates estrogen action in various target organs (PubMed: [22452784](http://www.uniprot.org/citations/22452784)). Mediates the ubiquitination and subsequent proteasomal degradation of ZFHX3 (PubMed: [22452784](http://www.uniprot.org/citations/22452784)). Plays a role in promoting the restart of stalled replication forks via interaction with the KHDC3L-OOEP scaffold and subsequent ubiquitination of BLM, resulting in the recruitment and retainment of BLM at DNA replication forks (By similarity). Plays an essential role in the antiviral activity of ZAP/ZC3HAV1; an antiviral protein which inhibits the replication of certain viruses. Mechanistically, mediates 'Lys-63'-linked polyubiquitination of ZAP/ZC3HAV1 that is required for its optimal binding to target mRNA (PubMed: [28202764](http://www.uniprot.org/citations/28202764), PubMed: [28060952](http://www.uniprot.org/citations/28060952)). Mediates also the ubiquitination of various substrates implicated in stress granule formation, nonsense-mediated mRNA decay, nucleoside synthesis and mRNA translation and stability (PubMed: [36067236](http://www.uniprot.org/citations/36067236)).

Cellular Location

Cytoplasm. Cytoplasm, Stress granule. Nucleus {ECO:0000250|UniProtKB:Q61510}

Tissue Location

Expressed in breast tumors (at protein level). Ubiquitous.

TRIM25 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TRIM25 Antibody (Center) Blocking Peptide - Images

TRIM25 Antibody (Center) 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 the cytoplasm. The presence of potential DNA-binding and dimerization-transactivation domains suggests that this protein may act as a transcription factor, similar to several other members of the TRIM family. Expression of the gene is upregulated in response to estrogen, and it is thought to mediate estrogen actions in breast cancer as a primary response gene.

TRIM25 Antibody (Center) Blocking Peptide - References

Dai, H., et al. Oncol. Rep. 23(3):795-799(2010) Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :Gack, M.U., et al. Cell Host Microbe 5(5):439-449(2009) Ludwig, S., et al. Cell Host Microbe 5(5):420-421(2009) Dai, H., et al. Oncol. Rep. 21(2):395-401(2009)