

**RNGTT Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6617b****Specification**

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**RNGTT Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O60942](#)**RNGTT Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8732**Other Names**

mRNA-capping enzyme, HCAP1, HCE, Polynucleotide 5'-triphosphatase, mRNA 5'-triphosphatase, TPase, mRNA guanylyltransferase, GTP--RNA guanylyltransferase, GTase, RNGTT, CAP1A

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6617b](/products/AP6617b) was selected from the C-term region of human RNGTT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**RNGTT Antibody (C-term) Blocking Peptide - Protein Information****Name** RNGTT**Synonyms** CAP1A**Function**

Bifunctional mRNA-capping enzyme exhibiting RNA 5'- triphosphate monophosphatase activity in the N-terminal part and mRNA guanylyltransferase activity in the C-terminal part. Catalyzes the first two steps of cap formation: by removing the gamma-phosphate from the 5'-triphosphate end of nascent mRNA to yield a diphosphate end, and by transferring the GMP moiety of GTP to the 5'-diphosphate terminus of RNA via a covalent enzyme-GMP reaction intermediate.

**Cellular Location**

Nucleus.

**Tissue Location**

Isoform 1 and isoform 4 (at a lesser extent) are expressed in cerebrum, cerebellum, thyroid, lung, heart, liver, kidney, spleen, large intestine, testis, skin and muscle

**RNGTT Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**RNGTT Antibody (C-term) Blocking Peptide - Images****RNGTT Antibody (C-term) Blocking Peptide - Background**

RNGTT is a bifunctional mRNA-capping enzyme exhibiting RNA 5'-triphosphatase activity in the N-terminal part and mRNA guanylyltransferase activity in the C-terminal part. The protein catalyzes the first two steps of cap formation: by removing the gamma-phosphate from the 5'-triphosphate end of nascent mRNA to yield a diphosphate end, and by transferring the gmp moiety of GTP to the 5'-diphosphate terminus.

**RNGTT Antibody (C-term) Blocking Peptide - References**

Zhou, M., Proc. Natl. Acad. Sci. U.S.A. 100 (22), 12666-12671 (2003) Chiu, Y.L., J. Biol. Chem. 276 (16), 12959-12966 (2001)