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

RNGTT Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6617b

Specification

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 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)