

RNGTT Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6617b**Specification**

RNGTT Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	O60942
Other Accession	O55236
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68557
Antigen Region	489-516

RNGTT Antibody (C-term) - 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

This RNGTT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 489-516 amino acids from the C-terminal region of human RNGTT.

Dilution

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

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

RNGTT Antibody (C-term) - 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

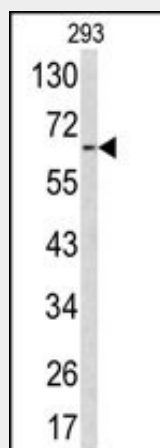
Isoform 1 and isoform 4 (at a lesser extent) are expressed in cerebrum, cerebellum, thyroid, lung, heart, liver, kidney, spleen, large intestine, testis, skin and muscle

RNGTT Antibody (C-term) - Protocols

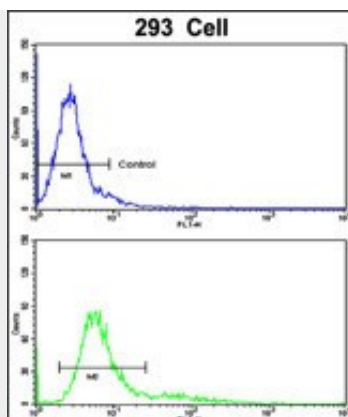
Provided below are standard protocols that you may find useful for product applications.

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

RNGTT Antibody (C-term) - Images



Western blot analysis of RNGTT antibody (C-term) (Cat. #AP6617b) in 293 cell line lysates (35ug/lane). RNGTT (arrow) was detected using the purified Pab.



Flow cytometric analysis of 293 cells using RNGTT Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RNGTT Antibody (C-term) - 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) - 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)