

## Rabbit anti-Human RNGTT Polyclonal Antibody | anti-RNGTT antibody

Anti-RNGTT Antibody Picoband

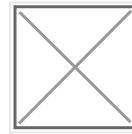
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                                         |
|-----------|--------|------------|----------------------------------------------------------------------------------------------------------------------|
| AAA19924  | Rabbit | Human      | Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

RNGTT; Polyclonal Antibody; Anti-RNGTT Antibody Picoband; CD72 molecule; B-cell differentiation antigen CD72; Lyb-2; CD72; anti-RNGTT antibody

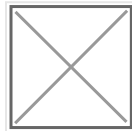
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                |
| Reactivity                                      | Human                                                                                                                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                                                                                                            |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                            |
| Specificity                                     | Pre-B-cells and B-cells but not terminally differentiated plasma cells.                                                                                                                                               |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                     | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-RNGTT antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA                                                                                   |
| Application Notes                               | WB: 0.25-0.5ug/ml, Human<br>IHC(Paraffin-embedded Section): 2-5ug/ml, Human<br>ICC/IF: 5ug/ml, Human<br>IF: 5ug/ml, Human<br>FC/FACS (Fixed): 1-3ug/1x10 <sup>6</sup> cells, Human<br>ELISA: 0.1-0.5ug/ml             |
| Immunogen                                       | E coli-derived human RNGTT recombinant protein (Position: L11-D438).                                                                                                                                                  |
| Subcellular Localization                        | Membrane, Single-pass type II membrane protein                                                                                                                                                                        |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                                | No cross-reactivity with other proteins.                                                                                                                                                                              |
| Protein Function                                | Plays a role in B-cell proliferation and differentiation.                                                                                                                                                             |
| Preparation and Storage                         | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |



### IF (Immunofluorescence)

Figure 8. IF analysis of RNGTT using anti-RNGTT antibody (AAA19924). RNGTT was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5µg/mL rabbit anti-RNGTT Antibody (AAA19924) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>1. Pillutla, R. C., Shimamoto, A., Furuichi, Y., Shatkin, A. J. Human mRNA capping enzyme (RNGTT) and cap methyltransferase (RNMT) map to 6q16 and 18p11.22-p11.23, respectively. Genomics 54: 351-353, 1998.2. Tsukamoto, T., Shibagaki, Y., Murakoshi, T., Suzuki, M., Nakamura, A., Gotoh, H., Mizumoto, K. Cloning and characterization of two human cDNAs encoding the mRNA capping enzyme. Biochem. Biophys. Res. Commun. 243: 101-108, 1998. 3. Yamada-Okabe, T., Doi, R., Shimmi, O., Arisawa, M., Yamada-Okabe, H. Isolation and characterization of a human cDNA for mRNA 5-prime-capping enzyme. Nucleic Acids Res. 26: 1700-1706, 1998.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 556695469                                                      |
| NCBI GeneID                      | 8732                                                           |
| NCBI Accession #                 | NP_001273355.1                                                 |
| NCBI GenBank Nucleotide #        | NM_001286426.1                                                 |
| UniProt Accession #              | O60942; O43483; O60257; O60351; Q5TCW8; Q8WUM8; E1P513; E1P514 |
| Molecular Weight                 | 61,705 Da                                                      |
| NCBI Official Full Name          | mRNA-capping enzyme isoform b                                  |
| NCBI Official Synonym Full Names | RNA guanylyltransferase and 5'-phosphatase                     |
| NCBI Official Symbol             | RNGTT                                                          |
| NCBI Official Synonym Symbols    | HCE; HCE1; hCAP; CAP1A                                         |
| NCBI Protein Information         | mRNA-capping enzyme                                            |
| UniProt Protein Name             | mRNA-capping enzyme                                            |
| UniProt Gene Name                | <b>RNGTT</b>                                                   |
| UniProt Synonym Gene Names       | CAP1A; TPase; GTase                                            |
| UniProt Entry Name               | MCE1_HUMAN                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.