

For Research Use Only

# FcZero-rAb™ Biotin Anti-Human CD7 Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA98204



## Basic Information

**Catalog Number:**

Biotin-FcA98204

**Concentration:**

100ug, 500 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

EG3034

**GenBank Accession Number:**

NM\_006137.7

**GeneID (NCBI):**

924

**ENSEMBL Gene ID:**

ENSG00000173762

**UNIPROT ID:**

P09564

**Full Name:**

CD7 molecule

**Calculated MW:**

25 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

242402H8

**Recommended Dilutions:**

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

**Excitation/Emission maximum wavelengths:**

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## Applications

**Tested Applications:**

FC, ELISA

**Species Specificity:**

human

**Positive Controls:**

FC : human PBMCs,

## Background Information

CD7, also known as Leu-9 or GP40, is a 40-kDa single-pass type I transmembrane glycoprotein belonging to the immunoglobulin superfamily. CD7 is expressed on thymocytes, T cells, NK cells, and cells in the early stages of T, B, and myeloid cell differentiation (PMID: 10530432). It is one of the earliest antigens to appear on cells of the T-lymphocyte lineage (PMID: 3501369). CD7 plays a significant role in T-cell and T-cell/B-cell interactions during early lymphoid development. It is involved in the regulation of cell signaling and biology, including T-cell activation, proliferation, and the expression of interleukin-2 receptor alpha (IL-2R $\alpha$ ) (PMID: 11485208). CD7 is not only a marker for T-cells but also has functional implications in immune cell interactions and adhesion. It can provide co-stimulatory signals and is associated with CD3 and CD45, participating in T-cell activation (PMID: 7523512).

## Storage

**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

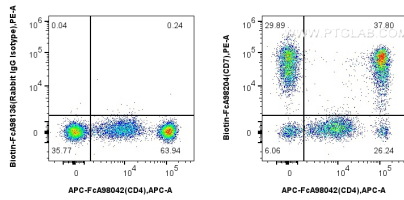
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Biotin Anti-Human CD7 Rabbit RecAb (Biotin-FcA98204, Clone: 242402H8) or Biotin Rabbit IgG Isotype Control RecAb (Biotin-FcA98136, Clone: 240953C9), and PE-conjugated streptavidin. Cells were then stained with FcZero-rAb™ APC Anti-Human CD4 Rabbit Recombinant Antibody (APC-FcA98042, Clone: 240427E12). Cells were not fixed.