

For Research Use Only

FcZero-rAb® PE-Cyanine7 Anti-Human CD7 Rabbit Recombinant Antibody

Catalog Number:PY7-FcA98204



Basic Information

Catalog Number:

PY7-FcA98204

Concentration:

100tests, 5 ul/test

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: 5 ul per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 778 nm

Applications

Tested Applications:

FC

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 α) (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 and 0.5% BSA, pH7.3

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

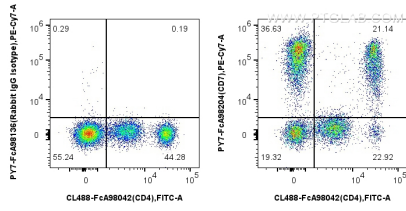
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ human PBMCs were surface stained with FcZero-rAb™ CoraLite® Plus 488 Anti-Human CD4, and 5 ul PE-Cyanine7 Anti-Human CD7 Rabbit RecAb (PY7-FcA98204, Clone: 242402H8) or FcZero-rAb™ PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.