

For Research Use Only

FcZero-rAb® PerCP-Cyanine5.5 Anti-Human CD7 Rabbit Recombinant Antibody

Catalog Number:CPY5-FcA98204



Basic Information

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| Catalog Number: CPY5-FcA98204 | GenBank Accession Number: NM_006137.7 | Purification Method: Protein A purification |
| Size: 100tests , 5 ul/test | GeneID (NCBI): 924 | CloneNo.: 242402H8 |
| Source: Rabbit | ENSEMBL Gene ID: ENSG00000173762 | Recommended Dilutions: FC: 5 ul per 10 ⁶ cells in a 100 µl suspension |
| Isotype: IgG | UNIPROT ID: P09564 | Excitation/Emission maxima wavelengths: 482 nm / 690nm |
| Immunogen Catalog Number: EG3034 | Full Name: CD7 molecule | |
| | Calculated MW: 25 kDa | |

Applications

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| Tested Applications: FC | Positive Controls: FC : human PBMCs, |
| Species Specificity: human | |

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).

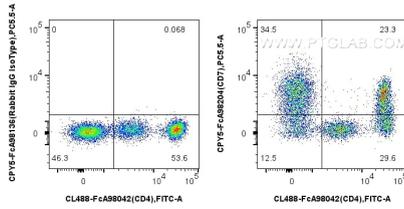
Storage

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

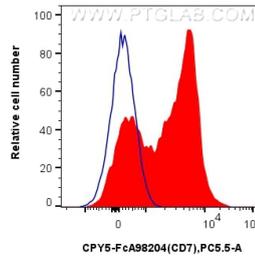
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ human PBMCs were surface stained with CoraLite® Plus 488 Anti-Human CD4, and 5 ul PerCP-Cyanine5.5 Anti-Human CD7 Rabbit RecAb (CPY5-FcA98204, Clone: 242402H8) or Rabbit IgG Isotype Control RecAb (CPY5-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.



1x10⁶ human PBMCs were surface stained with 5 ul PerCP-Cyanine5.5 Anti-Human CD7 Rabbit RecAb (CPY5-FcA98204, Clone: 242402H8) (red) or Rabbit IgG Isotype Control RecAb (CPY5-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.