

For Research Use Only

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

Catalog Number: PY5P5-FcA98204



## Basic Information

<b>Catalog Number:</b> PY5P5-FcA98204	<b>GenBank Accession Number:</b> NM_006137.7	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100tests , 5 ul/test	<b>GeneID (NCBI):</b> 924	<b>CloneNo.:</b> 242402H8
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000173762	<b>Recommended Dilutions:</b> FC: 5 ul per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P09564	<b>Excitation/Emission maxima wavelengths:</b> 496 nm, 565 nm / 692 nm
<b>Immunogen Catalog Number:</b> EG3034	<b>Full Name:</b> CD7 molecule	
	<b>Calculated MW:</b> 25 kDa	

## Applications

<b>Tested Applications:</b> FC	<b>Positive Controls:</b> FC : human PBMCs,
<b>Species Specificity:</b> 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 $\alpha$ ) (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).

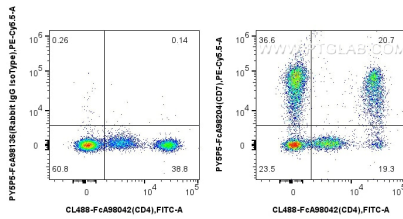
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

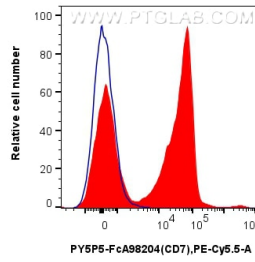
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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 CoraLite® Plus 488 Anti-Human CD4, and 5 ul PE-Cyanine5.5 Anti-Human CD7 Rabbit RecAb (PY5P5-FcA98204, Clone: 242402H8) or Rabbit IgG Isotype Control RecAb (PY5P5-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul PE-Cyanine5.5 Anti-Human CD7 Rabbit RecAb (PY5P5-FcA98204, Clone: 242402H8) (red) or Rabbit IgG Isotype Control RecAb (PY5P5-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed.