

For Research Use Only

PE Anti-Human CD7 Rabbit Recombinant Antibody

Catalog Number:PE-98204



Basic Information

Catalog Number:	PE-98204	GenBank Accession Number:	NM_006137.7	Purification Method:	Protein A purification
Concentration:	100tests, 5 μ l/test	GeneID (NCBI):	924	CloneNo.:	242402H8
Source:	Rabbit	ENSEMBL Gene ID:	ENSG00000173762	Recommended Dilutions:	FC: 5 μ l per 10^6 cells in a 100 μ l suspension
Isotype:	IgG	UNIPROT ID:	P09564	Excitation/Emission maxima wavelengths:	496 nm, 565 nm / 578 nm
Immunogen Catalog Number:	EG3034	Full Name:	CD7 molecule		
		Calculated MW:	25 kDa		

Applications

Tested Applications:	Positive Controls:
FC	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:

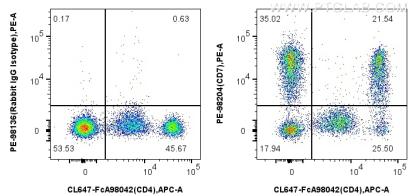
T: 4006900926

E: Proteintech-CN@ptglab.com

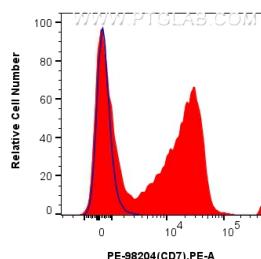
W: ptgcn.com

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Selected Validation Data



1x10⁶ human PBMCs were surface stained with FcZero-rAb™ CoraLite® Plus 647 Anti-Human CD4, and 5 ul PE Anti-Human CD7 Rabbit RecAb (PE-98204, Clone:242402H8) or PE Rabbit IgG Isotype Control RecAb (PE-98136, Clone: 240953C9). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10⁶ FC receptor blocked human PBMCs were surface stained with 5 ul PE Anti-Human CD7 Rabbit RecAb (PE-98204, Clone:242402H8) (red) or PE Rabbit IgG Isotype Control RecAb (PE-98136, Clone: 240953C9) (blue). Cells were not fixed.