

For Research Use Only

CoraLite® Plus 647 Anti-Human CD7 Rabbit Recombinant Antibody

Catalog Number: CL647-98204



Basic Information

Catalog Number:

CL647-98204

Concentration:

100 tests, 5 µl/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 µl per 10⁶ cells in a 100 µl suspension

Excitation/Emission maximum wavelengths:

654 nm / 674 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, pH7.3

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

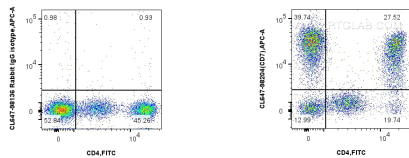
T: 4006900926

E: Proteintech-CN@ptglab.com

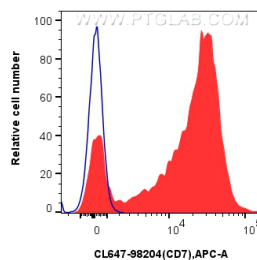
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Selected Validation Data



1x10⁶ human PBMCs were surface stained with FITC Plus Anti-Human CD4 (OKT4) (FITC-65134, Clone: OKT4), and CoraLite® Plus 647 Anti-Human CD7 Rabbit RecAb (CL647-98204, Clone: 242402H8) or CoraLite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10⁶ human PBMCs were surface stained with 5 ul CoraLite® Plus 647 Anti-Human CD7 Rabbit RecAb (CL647-98204, Clone: 242402H8) (red) or CoraLite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.