

CD7 (B-F12): sc-65304

BACKGROUND

CD7 is a type I transmembrane glycoprotein that is expressed on pluripotential hemopoietic cells, most human thymocytes and some peripheral blood T cells. CD7 is a marker for pluripotential stem cell leukemias and T cell acute lymphocytic leukemia. A role for CD7 in the activation of T cells with γ/δ receptors has been suggested. CD8 T cells from patients infected with HIV-1 displayed profound down-modulation of CD7 expression as compared with healthy subjects. CD7 is among the pan-T cell antigens downregulated in acute infectious mononucleosis. The CD7 molecule is absent in a subset of human T cells under certain physiologic conditions, as such an increase in CD7 negative T cells can be seen in some inflammatory skin diseases.

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CHROMOSOMAL LOCATION

Genetic locus: CD7 (human) mapping to 17q25.3.

SOURCE

CD7 (B-F12) is a mouse monoclonal antibody raised against chronic lymphoid leukemia cells.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and 1% BSA.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

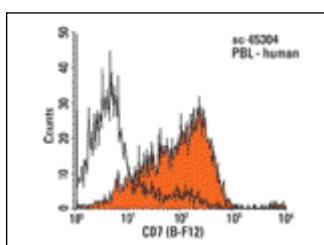
APPLICATIONS

CD7 (B-F12) is recommended for detection of CD7 of human origin by flow cytometry (1 μ g per 1×10^6 cells).

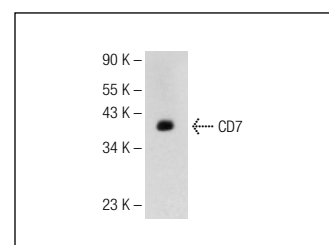
Suitable for use as control antibody for CD7 siRNA (h): sc-35021, CD7 shRNA Plasmid (h): sc-35021-SH and CD7 shRNA (h) Lentiviral Particles: sc-35021-V.

Molecular Weight of CD7: 40 kDa.

DATA



CD7 (B-F12): sc-65304. Indirect FCM analysis of human peripheral blood leukocytes stained with CD7 (B-F12), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Black line histogram represents the isotype control, normal mouse IgG₁: sc-3877.



CD7 (B-F12): sc-65304. Western blot analysis of CD7 expression in CCRF-CEM whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.