

PerCP/Cyanine 5.5 anti-human CD7 Antibody

Catalog# / Size	385815 / 25 tests 385816 / 100 tests
Clone	A20153E
Regulatory Status	RUO
Isotype	Mouse IgG2b, κ
Description	CD7 is a 40 kD type I transmembrane glycoprotein also known as gp40. It is a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL) and some acute myeloid leukemia (AML) cells. CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 costimulation can induce cytokine secretion and modulate cellular adhesion.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CD7 recombinant protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Clone A20153E can completely block binding of clone 4H9-CD7 and partially blocks binding of clone CD7-6B7 on target cells.
RRID	AB_3699039 (BioLegend Cat. No. 385815) AB_3699039 (BioLegend Cat. No. 385816)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 40 kD
Distribution	T cells, NK cells, thymocytes, hematopoietic progenitors, myeloid leukemic cell subsets
Function	T cell Activation

Cell Type Hematopoietic stem and progenitors, Leukemia, NK cells, T cells, Thymocytes

Biology Area Costimulatory Molecules, Immunology

Molecular Family CD Molecules

Antigen References

1. Barclay N, et al. 1993. *The Leucocyte Antigen FactsBook*. Academic Press Inc. San Diego.
2. Stillwell R, et al. 2001. *Immunol Res*. 24:31-52.
3. Rabinowich H, et al. 1994. *J Immunol*. 152:517-26.

Gene ID [924](#)

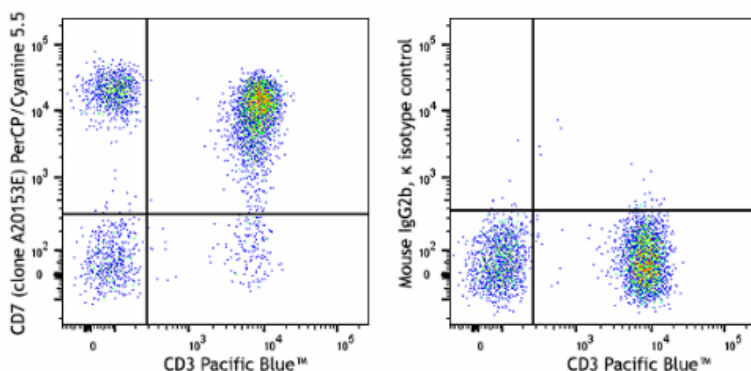
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD7, PE anti-human CD7, PE/Dazzle™ 594 anti-human CD7, Alexa Fluor® 488 anti-human CD7, APC anti-human CD7, Brilliant Violet 421™ anti-human CD7, PE/Cyanine7 anti-human CD7 Antibody, PerCP/Cyanine 5.5 anti-human CD7 Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Pacific Blue™ and anti-human CD7 (clone A20153E) PerCP/Cyanine 5.5 (left) or mouse IgG2b, κ PerCP/Cyanine 5.5 isotype control (right).

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