

## PE/Cyanine7 anti-human CD7 Antibody

<b>Catalog# / Size</b>	385813 / 25 tests 385814 / 100 tests
<b>Clone</b>	A20153E
<b>Regulatory Status</b>	RUO
<b>Isotype</b>	Mouse IgG2b, $\kappa$
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human CD7 recombinant protein
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Clone A20153E can completely block binding of clone 4H9-CD7 and partially blocks binding of clone CD7-6B7 on target cells.
<b>RRID</b>	AB_3683429 (BioLegend Cat. No. 385813) AB_3683429 (BioLegend Cat. No. 385814)

### Antigen Details

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<b>Structure</b>	Ig superfamily, type I transmembrane glycoprotein, 40 kD
<b>Distribution</b>	T cells, NK cells, thymocytes, hematopoietic progenitors, myeloid leukemic cell subsets
<b>Function</b>	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](#)

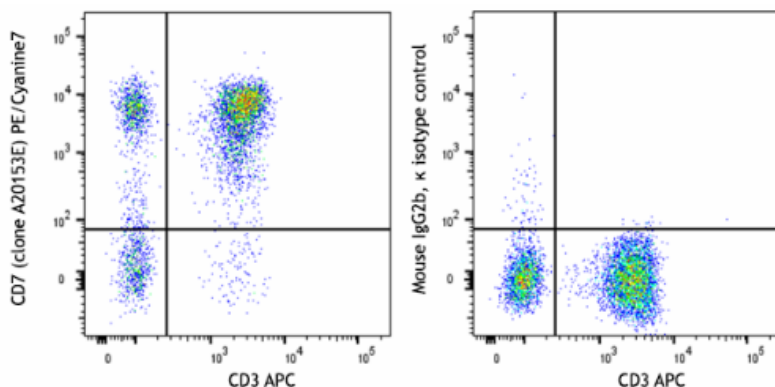
## Related Protocols

- [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) APC and anti-human CD7 (clone A20153E) PE/Cyanine7 (left) or mouse IgG2b, κ PE/Cyanine7 isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587