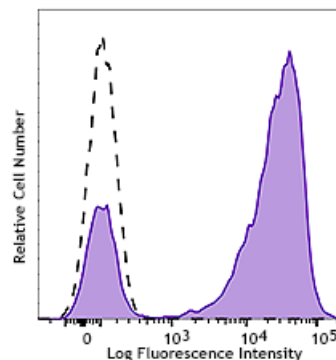


PE anti-human CD7

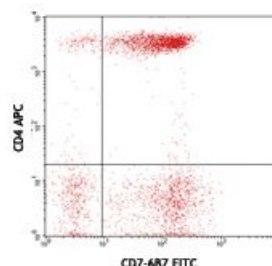
Catalog # /	2315525 / 25 tests
Size:	2315530 / 100 tests
Clone:	CD7-6B7
Isotype:	Mouse IgG2a, κ
Immunogen:	KG1a cell line
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	IV T-164
Concentration:	Lot-specific



Human peripheral blood lymphocytes stained with CD7 (clone CD7-6B7) PE (filled histogram) or mouse IgG2a, κ isotype control PE (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 μl to 5 μl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Human peripheral blood lymphocytes stained with CD7-6B7 FITC and CD4 APC

Application References:	<ol style="list-style-type: none"> Knapp W, et al. 1989. <i>Leucocyte Typing IV: White Cell Differentiation Antigens</i>. Oxford University Press. Peterson VM, et al. 2017. <i>Nat. Biotechnol.</i> 35:936. (PG)
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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.

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