

GMP PE anti-human CD7 Antibody

Catalog# / Size	260160 / 100 tests
Clone	CD7-6B7
Workshop	IV T-164
Other Names	gp40
Isotype	Mouse IgG2a, 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

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	KG1a cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	100 µg/mL
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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported (for the relevant formats) applications include proteogenomics ² .
Application References	1. Knapp W, <i>et al.</i> 1989. <i>Leucocyte Typing IV: White Cell Differentiation Antigens</i> . Oxford University Press. 2. Peterson VM, <i>et al.</i> 2017. <i>Nat. Biotechnol.</i> 35:936. (PG)
(PubMed link indicates BioLegend citation)	
Disclaimer	GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include: <ul style="list-style-type: none"> • Batch-to-batch consistency • Material traceability • Documented procedures • Documented employee training • Equipment maintenance and monitoring records • Lot-specific certificates of analysis • Quality audits per ISO 13485:2016

- QA review of released products

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
Ligand/Receptor	Cytoplasmic domain associates with P13-kinase
Cell Type	Hematopoietic stem and progenitors, Leukemia, NK cells, T cells, Thymocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Barclay N, <i>et al.</i> 1993. <i>The Leucocyte Antigen FactsBook</i>. Academic Press Inc. San Diego. 2. Stillwell R, <i>et al.</i> 2001. <i>Immunol. Res.</i> 24:31. 3. Rabinowich H, <i>et al.</i> 1994. <i>J. Immunol.</i> 152:517.
Gene ID	924

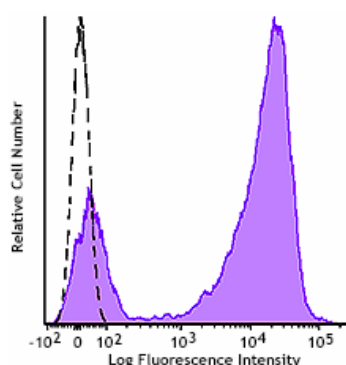
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD7, FITC anti-human CD7, PE anti-human CD7, APC anti-human CD7, PE/Cyanine5 anti-human CD7, PE/Cyanine7 anti-human CD7, Purified anti-human CD7 (Maxpar® Ready), PerCP/Cyanine5.5 anti-human CD7, PE/Dazzle™ 594 anti-human CD7, APC/Fire™ 750 anti-human CD7, Alexa Fluor® 647 anti-human CD7, TotalSeq™-A0066 anti-human CD7, Alexa Fluor® 700 anti-human CD7, TotalSeq™-C0066 anti-human CD7, TotalSeq™-B0066 anti-human CD7, Pacific Blue™ anti-human CD7 Antibody, TotalSeq™-D0066 anti-human CD7, GMP APC anti-human CD7, GMP FITC anti-human CD7

Product Data



Typical results from human peripheral blood lymphocytes stained either with CD7-6B7 PE used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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