



GMP Pacific Blue™ anti-human CD7 Antibody

Catalog# / Size 260298 / 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 Pl3-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) and a stabilizer

Preparation The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under

optimal conditions.

Concentration 100.0 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

<u>analysis</u>. For flow cytometric staining, the suggested use of this reagent is $5 \,\mu$ L per million cells in 100 μ L staining volume or $5 \,\mu$ L per 100 μ L of whole blood. It is recommended that the reagent be

titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability

of exciting and detecting the fluorochrome.

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Excitation Laser Violet Laser (405 nm)

Application Notes Additional reported (for the relevant formats) applications include proteogenomics².

Application References

(PubMed link indicates BioLegend citation)

Disclaimer

1. Knapp W, et al. 1989. Leucocyte Typing IV:White Cell Differentiation Antigens. Oxford University

2. Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

occepting citation,

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:

- · 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

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. Antigen References

3. Rabinowich H, et al. 1994. J. Immunol. 152:517.

Gene ID 924

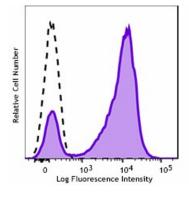
Related Protocols

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, TotalSeq™-C0066 anti-human CD7, TotalSeq™-B0066 anti-human CD7, Pacific Blue™ anti-human CD7, TotalSeq™-C0066 anti-human CD7, TotalSeq CD7 Antibody, TotalSeq™-D0066 anti-human CD7, GMP APC anti-human CD7, GMP FITC anti-human CD7, Pacific Blue™ antihuman CD7, GMP PE anti-human CD7

Product Data



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

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