



GMP PE/Cyanine7 anti-human CD7 Antibody

Catalog# / Size 260296 / 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

Monoclonal Antibody Type

Host Species Mouse

Immunoaen KG1a cell line

Formulation Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium

azide, 0.2% (w/v) BSA (origin USA) and a stabilizer.

Preparation The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 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

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)

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

Application References

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)

(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:

- 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

Antigen Details

Structure lg 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 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.

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

Gene ID 924

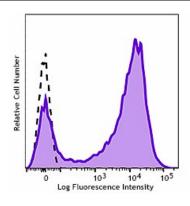
Related Protocols

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 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 PE/Cyanine7 used at 5 µL/test (filled histogram) or with an isotype control (open histogram).

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