



GMP PerCP/Cyanine5.5 anti-human CD3 Antibody

Catalog# / Size 260162 / 100 tests

Clone SK7

Workshop **HCDM** listed T3, CD3ε Other Names

Isotype Mouse IgG1, κ

CD3ɛ is a 20 kD chain of the CD3/T-cell receptor (TCR) complex, which is composed of two Description

CD3 ϵ , one CD3 γ , one CD3 δ , one CD3 ζ (CD247), and a T-cell receptor (α/β or γ/δ) heterodimer. It is found on all mature T cells, NK T cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays a role in antigen

recognition, signal transduction, and T cell activation.

Product Details

Reactivity Human

Antibody Type Monoclonal

Host Species Mouse

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

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

Preparation The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5

under optimal conditions.

Concentration 100 µg/mL

The antibody solution should be stored undiluted between 2°C and 8°C, and protected from Storage & Handling

prolonged exposure to light. Do not freeze.

Application FC - Quality tested

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric Recommended Usage

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.

* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Excitation Laser Blue Laser (488 nm)

Additional reported application (for the relevant formats) include: immunohistochemical staining of frozen tissue sections 4,5,8 , immunofluorescent staining 6 , and Western blotting 3 . Application Notes

Application References (PubMed link indicates

BioLegend citation)

1. Kan EA, et al. 1983. J. Immunol. 131:536.

2. Wood GS, et al. 1985. Am. J. Pathol. 120:371

3. Van Dongen JJM, et al. 1988. Blood 71:603. (WB)

4. Haringman JJ, et al. 2005. Arthritis Res. Ther. 7:R862. (IHC)

5. Carbone A, et al. 1999. Blood 93:2319. (IHC)

6. Goval JJ, et al. 2006. J. Histochem. Cytochem. 54:75. (IF)

7. Rutjens E, et al. 2007. J. Immunol. 178:1702.

8. Kap Y, et al. 2009. J. Histochem. Cytochem. 57:1159. (IHC)

9. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

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
- QA review of released products

Antigen Details

Structure Ig superfamily, with the subunits of CD3γ, CD3ζ, (CD247) and TCR (α/β or γ/δ) forms

CD3/TCR complex, 20 kD

Distribution Mature T and NK T cells, during thymocyte differentiation

Function Antigen recognition, signal transduction, T cell activation

Ligand/Receptor Peptide antigen bound to MHC

Cell Type NKT cells, T cells, Tregs

Biology Area Immunology, Innate Immunity

Molecular Family CD Molecules, TCRs

Antigen References 1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.

2. Beverly P, *et al.* 1981. *Eur. J. Immunol.* 11:329. 3. Lanier L, *et al.* 1986. *J. Immunol.* 137:2501.

Gene ID 916

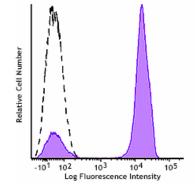
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC/Fire™ 750 anti-human CD3, Biotin anti-human CD3, Purified anti-human CD3, FITC anti-human CD3, PE anti-human CD3, Alexa Fluor® 488 anti-human CD3, APC anti-human CD3, PerCP/Cyanine5.5 anti-human CD3, PerCP anti-human CD3, PerCP anti-human CD3, PerCP anti-human CD3, APC/Cyanine7 anti-human CD3, Alexa Fluor® 700 anti-human CD3, Pacific Blue™ anti-human CD3, Alexa Fluor® 647 anti-human CD3, Brilliant Violet 510™ anti-human CD3, Brilliant Violet 421™ anti-human CD3, Brilliant Violet 605™ anti-human CD3, Brilliant Violet 711™ anti-human CD3, Brilliant Violet 785™ anti-human CD3, PE/Dazzle™ 594 anti-human CD3, Brilliant Violet 750™ anti-human CD3, TotalSeq™-A0049 anti-human CD3, TotalSeq™-C0049 anti-human CD3, Spark Blue™ 550 anti-human CD3, TotalSeq™-B0049 anti-human CD3, Alexa Fluor® 660 anti-human CD3, APC/Fire™ 810 anti-human CD3, Spark NIR™ 685 anti-human CD3, PE/Fire™ 640 anti-human CD3, PE/Fire™ 700 anti-human CD3, GMP FITC anti-human CD3, PE/Cyanine5 anti-human CD3 Antibody, GMP PE anti-human CD3, GMP APC anti-human CD3

Product Data



Typical results from human peripheral blood lymphocytes stained either with SK7 PerCP/Cyanine5.5 used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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