BioLegend
From Revvity

Version: 1 Revision Date: 01/15/2026

PE/Fire™ 810 anti-mouse CD3ε Recombinant Antibody

Catalog# / Size	155719 / 25 µg 155720 / 100 µg
Clone	QA17A05
Regulatory Status	RUO
Other Names	CD3ε, T3, CD3
Isotype	Mouse IgG1, κ
Description	CD3ε is a 20 kD transmembrane protein, also known as CD3 or T3. It is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. CD3ε forms a TCR complex by associating with the CD3δ, γ and ζ chains, as well as the TCR α/β or γ/δ chains. CD3 plays a critical role in TCR signal transduction, T cell activation, and antigen recognition by binding the peptide/MHC antigen complex.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	H-2Kb-specific mouse cytotoxic T lymphocyte clone BM10-37
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions.
Concentration	0.2 mg/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 ≤ 0.125 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 nm. Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect PE/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our Fire Dyes page.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone QA17A05 blocks clone 145-2C11. It also activates T cell proliferation like clone 145-2C11.

Antigen Details

Structure	Ig superfamily, forms CD3/TCR complex with CD3δ, γ and ζ subunits and TCR (α/β and γ/δ), 20

kD

Distribution	Thymocytes (differentiation dependent), mature T cells, NK-T cells
Function	TCR signal transduction, T cell activation, antigen recognition
Ligand/Receptor	Peptide antigen/MHC-complex
Cell Type	NKT cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules, TCRs
Antigen References	1. Barclay AN, Brown MH. 1997. *Biochem. Soc. Trans.* 25:224-8. 2. Davis MM. 1990. *Annu. Rev. Biochem.* 59:475. 3. Weiss A, Littman DR. 1994. *Cell*. 76:263.
Gene ID	12501

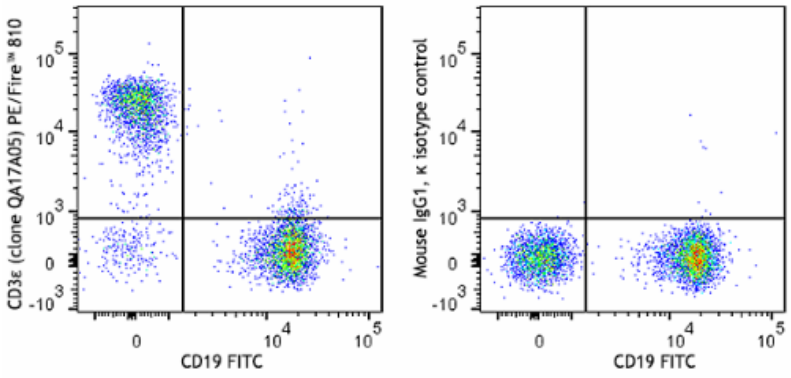
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Brilliant Violet 510™ anti-mouse CD3ε Recombinant Antibody, Brilliant Violet 421™ anti-mouse CD3ε Recombinant Antibody, PE/Fire™ 810 anti-mouse CD3ε Recombinant Antibody, Purified anti-mouse CD3ε Recombinant Antibody, Brilliant Violet 605™ anti-mouse CD3ε Recombinant Antibody, PerCP/Fire™ 806 anti-mouse CD3ε Recombinant Antibody, PE anti-mouse CD3ε Recombinant Antibody, PerCP/Cyanine5.5 anti-mouse CD3ε Recombinant Antibody, PE/Cyanine7 anti-mouse CD3ε Recombinant Antibody, APC/Cyanine7 anti-mouse CD3ε Recombinant Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD19 (clone 6D5) FITC and anti-mouse CD3ε recombinant (clone QA17A05) PE/Fire™ 810 (left) or mouse IgG1, κ PE/Fire™ 810 isotype control (right).

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