

PerCP/Fire™ 806 anti-mouse CD3ε Recombinant Antibody

Catalog# / Size	155709 / 25 µg 155710 / 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 PerCP/Fire™ 806 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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Fire™ 806 has a maximum excitation of 478 nm and a maximum emission of 806 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Clone QA17A05 blocks clone 145-2C11. It also activates T cell proliferation like clone 145-2C11.
RRID	AB_3716910 (BioLegend Cat. No. 155709) AB_3716910 (BioLegend Cat. No. 155710)

Antigen Details

Structure	Ig superfamily, forms CD3/TCR complex with CD3δ, γ and ζ subunits and TCR (α/β and γ/δ), 20 kD
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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. <i>Biochem. Soc. Trans.</i> 25:224-8. 2. Davis MM. 1990. <i>Annu. Rev. Biochem.</i> 59:475. 3. Weiss A, Littman DR. 1994. <i>Cell.</i> 76:263.
Gene ID	12501

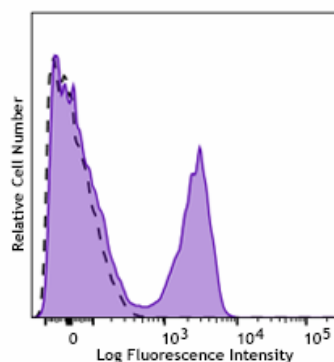
Related Protocols

- [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 incubated with TruStain FcX™ (clone 93) and then stained with anti-mouse CD3ε recombinant (clone QA17A05) PerCP/Fire™ 806 (filled histogram) or mouse IgG1, κ PerCP/Fire™ 806 isotype control (open histogram).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587