

PE anti-mouse CD3 ϵ Recombinant Antibody

Catalog# / Size	155717 / 25 μ g 155718 / 100 μ g
Clone	QA17A05
Regulatory Status	RUO
Other Names	CD3 ϵ , T3, CD3
Isotype	Mouse IgG1, κ
Description	CD3 ϵ 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. CD3 ϵ forms a TCR complex by associating with the CD3 δ , 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 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 ≤ 0.25 μ g per million cells in 100 μ L volume. 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)
Application Notes	Clone QA17A05 blocks clone 145-2C11. It also activates T cell proliferation like clone 145-2C11.
RRID	AB_3720636 (BioLegend Cat. No. 155717) AB_3720636 (BioLegend Cat. No. 155718)

Antigen Details

Structure	Ig superfamily, forms CD3/TCR complex with CD3 δ , 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](#)

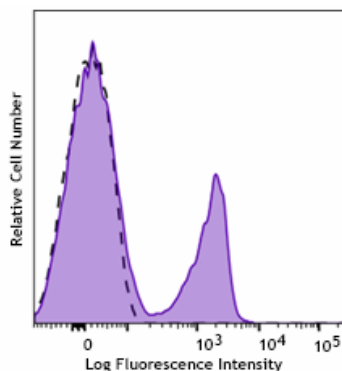
Related Protocols

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

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