

PerCP anti-mouse CD3ε

Catalog # / Size: 1101625 / 25 µg
1101630 / 100 µg

Clone: 145-2C11

Isotype: Hamster IgG

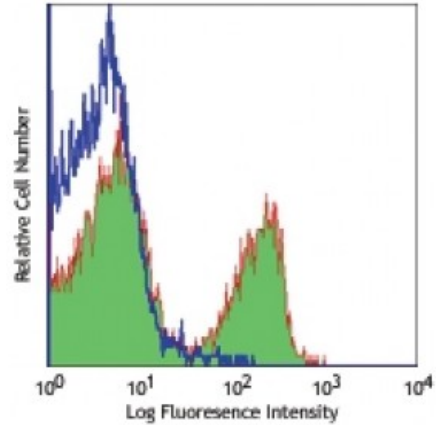
Immunogen: H-2Kb-specific mouse cytotoxic T lymphocyte clone BM10-37

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD3ε (clone 145-2C11) PerCP (filled histogram) or Armenian hamster IgG PerCP isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.

Application Notes: Clone 145-2C11 is useful for *in vitro* blocking of target-specific CTL-mediated cell lysis¹, as well as T cell activation assays, inducing proliferation and cytokine production^{1,2,7,12,16}. It also induces apoptosis in immature thymocytes^{3,2}, and *in vivo* T cell depletion⁸⁻¹⁰. Additional reported applications (for relevant formats of this clone) include: immunoprecipitation¹, immunohistochemical staining^{14,15} of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections, Western blotting⁴, complement-mediated cytotoxicity⁶, *in vitro* and *in vivo* stimulation of T cells^{1,2,7,12,16}, immunofluorescent staining⁵, and *in vivo* T cell depletion⁸⁻¹⁰. The 145-2C11 antibody has been reported to block the binding of 17A2 antibody to CD3 epsilon-specific T cells¹¹. Clone 145-2C11 is not recommended for formalin-fixed paraffin embedded sections. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 100314). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 100340) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

- Application References:**
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- 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.
- Antigen**
- References:**
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