

APC Anti-Mouse CD3e (145-2C11) Antibody
Catalog # ATB10001**Specification**

APC Anti-Mouse CD3e (145-2C11) Antibody - Product Information

Application	FC
Isotype	Armenian Hamster IgG
Concentration	0.2 mg/mL
Reactivity	Mouse
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% Na ₂ S ₂ O ₃ , 0.1% gelatin, pH7.2
Host	Armenian Hamster

APC Anti-Mouse CD3e (145-2C11) Antibody - Additional Information

Gene ID	12501
Gene Name	Cd3e
Alternative Name(s)	
CD3 epsilon	

Format

APC

Preparation

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

Storage Conditions

2-8°C protected from light

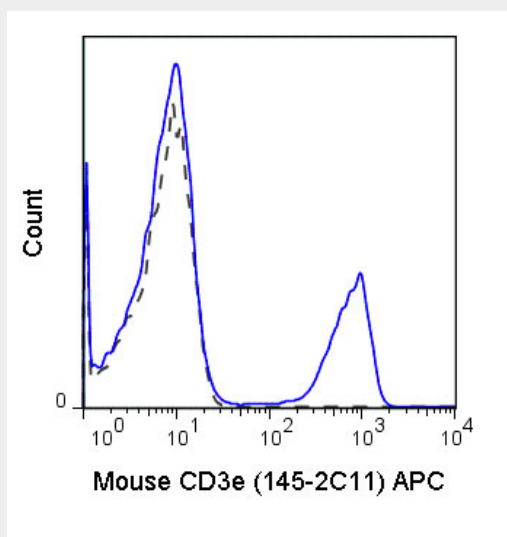
APC Anti-Mouse CD3e (145-2C11) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

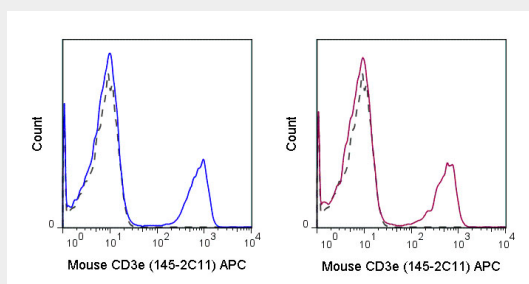
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

APC Anti-Mouse CD3e (145-2C11) Antibody - Images



C57Bl/6 splenocytes were stained with 0.25 ug Anti-Mouse CD3e APC (ATB10001) (solid line) or 0.25 ug Armenian hamster IgG APC isotype control (dashed line).



C57Bl/6 splenocytes were stained with 0.25 ug APC Anti-Mouse CD3e (145-2C11) manufactured by Tonbo Biosciences (left panel) or eBioscience (right panel).

APC Anti-Mouse CD3e (145-2C11) Antibody - Background

The 145-2C11 antibody is specific for mouse CD3e, also known as CD3 epsilon, a 20 kDa subunit of the T cell receptor complex, along with CD3 gamma and CD3 delta. These integral membrane protein chains assemble with additional chains of the T cell receptor (TCR), as well as CD3 zeta chain, to form the T cell receptor - CD3 complex. Together with co-receptors CD4 or CD8, the complex serves to recognize antigens bound to MHC molecules on antigen-presenting cells. Such interactions promote T cell receptor signaling (T cell activation) and can result in a number of cellular responses including proliferation, differentiation, production of cytokines or activation-induced cell death. CD3 is differentially expressed during thymocyte-to-T cell development and on all mature T cells. The 145-2C11 antibody is a widely used phenotypic marker for mouse T cells. In addition, binding of 145-2C11 antibody to CD3e can induce cell activation. A recent publication of the crystal structure of a murine CD3e-mitogenic antibody complex provides further insight into the action of commonly used agonist antibodies (Fernandes, R.A. et al. 2012. J. Biol. Chem. 287: 13324-13335).