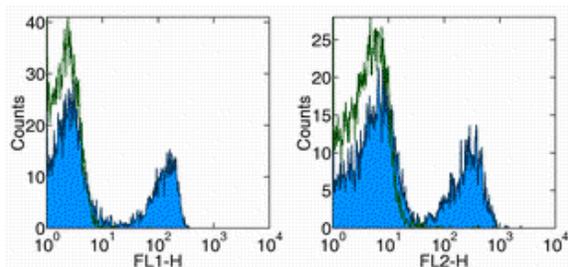


Anti-Mouse CD3e Functional Grade Purified

Catalog Number: 16-0031

Also Known As: CD3 epsilon

RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD3e FITC (left) or PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD3e Functional Grade Purified

REF **Catalog Number:** 16-0031

Clone: 145-2C11

Concentration: 1 mg/mL

Host/Isotype: Armenian Hamster IgG

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

Applications Reported

The 145-2C11 antibody has been reported for use in flow cytometric analysis. It has also been reported in cell activation and cell depletion. Please visit the following website to view a protocol for *in vitro* T-cell activation:
<http://www.ebioscience.com/ebioscience/appls/AC145.htm>

Applications Tested

The 145-2C11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Takeuchi A, Usui Y, Takeuchi M, Hattori T, Kezuka T, Suzuki J, Okunuki Y, Iwasaki T, Haino M, Matsushima K, Usui M. CCR5-deficient mice develop experimental autoimmune uveoretinitis in the context of a deviant effector response. *Invest Ophthalmol Vis Sci*. 2005 Oct;46(10):3753-60. (**145-2C11**, IHC frozen, PubMed)

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IP)

Kearse KP. Calnexin associates with monomeric and oligomeric (disulfide-linked) CD3delta proteins in murine T lymphocytes. J Biol Chem. 1998 Jun 5;273(23):14152-7. (**145-2C11**, IP and WB)

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Leo O, Foo M, Sachs DH, Samelson LE, Bluestone JA. Identification of a monoclonal antibody specific for a murine T3 polypeptide. Proc Natl Acad Sci U S A. 1987 Mar;84(5):1374-8

Related Products

11-4111 Anti-Armenian Hamster IgG FITC

12-4317 Streptavidin PE

13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)

16-4888 Armenian Hamster IgG Isotype Control Functional Grade Purified (eBio299Arm)

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