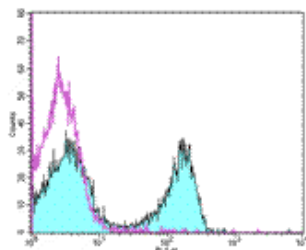


## Anti-Mouse CD3e Purified

Catalog Number: 14-0031

Also Known As: CD3 epsilon

RUO: For Research Use Only



Staining of C57Bl/6 splenocytes with Armenian Hamster IgG Isotype Control Purified (cat.14-4888) (open histogram) or Anti-Mouse CD3e Purified (filled histogram) followed by Anti-Armenian Hamster IgG FITC (cat.11-4111). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD3e Purified

**REF** **Catalog Number:** 14-0031

**Clone:** 145-2C11

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Armenian Hamster IgG

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



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



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### 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, immunoprecipitation, immunoblotting (WB), and immunohistochemical staining of frozen tissue sections. It has also been reported in cell activation and cell depletion. (Please use Functional Grade purified 145-2C11, cat. 16-0031, in functional assays.)

### Applications Tested

The 145-2C11 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Geng H, Zhang GM, Xiao H, Yuan Y, Li D, Zhang H, Qiu H, He YF, Feng ZH. HSP70 vaccine in combination with gene therapy with plasmid DNA encoding sPD-1 overcomes immune resistance and suppresses the progression of pulmonary metastatic melanoma. *Int J Cancer*. 2006 Jun 1;118(11):2657-64. (**145-2C11**, IHC frozen, PubMed)

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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)

Schuchert MJ, Wright RD, Colson YL. Characterization of a newly discovered T-cell receptor beta-chain heterodimer expressed on a CD8+ bone marrow subpopulation that promotes allogeneic stem cell engraftment. *Nat Med*. 2000 Aug;6(8):904-9. (**145-2C11**, WB and 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)

Samelson LE, O'Shea JJ, Luong H, Ross P, Urdahl KB, Klausner RD, Bluestone J. T cell antigen receptor phosphorylation induced by an anti-receptor antibody. J Immunol. 1987 Oct 15;139(8):2708-14.

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)

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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