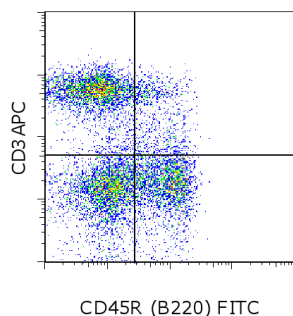


Anti-Rat CD3 APC

Catalog Number: 17-0030

Also known as: T3

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of rat splenocytes with Anti-Rat CD45R (B220) FITC (cat. 11-0460) and 0.125 µg of Anti-Rat CD3 APC. Total viable cells were used for analysis.

Product Information



Contents: Anti-Rat CD3 APC

Catalog Number: 17-0030

Clone: eBioG4.18 (G4.18)

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG3, kappa



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

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The eBioG4.18 monoclonal antibody recognizes the rat CD3 protein. CD3 is a critical component of the T-cell receptor (TCR) and is a marker of the T-cell lineage. CD3 is a complex of several subunits and, upon binding of a TCR ligand, participates in transduction of signals from the TCR to the nucleus which results in a variety of cellular responses including transcription of IL-2 and clonal expansion. *in vitro*, immobilized G4.18 monoclonal antibody has been demonstrated to activate T cells, while soluble G4.18 inhibited allogeneic mixed-lymphocyte proliferative responses and cell-mediated cytotoxicity to allogeneic target cells. *in vivo*, G4.18 was demonstrated to induce long-term specific tolerance to an organ allograft.

Applications Reported

This G4.18 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This G4.18 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 0.25 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

Tran GT, Carter N, He XY, Spicer TS, Plain KM, Nicolls M, Hall BM, Hodgkinson SJ. Reversal of experimental allergic encephalomyelitis with non-mitogenic, non-depleting anti-CD3 mAb therapy with a preferential effect on T(h)1 cells that is augmented by IL-4. *Int Immunol.* 2001 Sep;13(9):1109-20. (**G4.18**, FC, FA, PubMed)

Brenan M, Rees DJ. Sequence analysis of rat integrin alphaE1 and alphaE2 subunits: tissue expression reveals phenotypic similarities between intraepithelial lymphocytes and dendritic cells in lymph. *Eur J Immunol.* 2000 Jun;30(6):1527-37.

Upham JW, Strickland DH, Bilyk N, Robinson BW, Holt PG. Alveolar macrophages from humans and rodents

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selectively inhibit T-cell proliferation but permit T-cell activation and cytokine secretion. Immunology. 1995 Jan;84(1):142-7.

Nicolls MR, Aversa GG, Pearce NW, Spinelli A, Berger MF, Gurley KE, Hall BM. Induction of long-term specific tolerance to allografts in rats by therapy with an anti-CD3-like monoclonal antibody. Transplantation. 1993 Mar;55(3):459-68. (**G4.18**, FC, IP, FA, PubMed)

Related Products

00-4222 Flow Cytometry Staining Buffer

11-0460 Anti-Rat CD45R (B220) FITC (HIS24)

25-0084 Anti-Rat CD8a PE-Cy7 (OX8)

46-0040 Anti-Rat CD4 PerCP-eFluor® 710 (OX35)