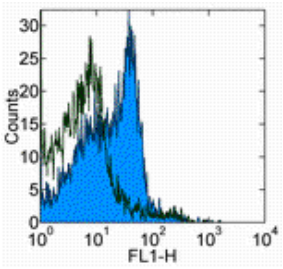
full spectrum cell analysis®
eBioscience®

Anti-Rat CD28 Functional Grade Purified

Catalog Number: 16-0280

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



Staining of Lou Rat splenocytes with 0.5 ug Mouse IgG1 K Isotype Control Functional Grade Purified (cat. 16-4714) (open histogram) or 0.5 ug of Anti-Rat CD28 Functional Grade Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Total viable cells were used for analysis.

Product Information

Contents: Anti-Rat CD28 Functional Grade Purified

REF **Catalog Number:** 16-0280

Clone: JJ319

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG1

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 JJ319 monoclonal antibody reacts with the rat CD28 molecule, expressed by thymocytes, mature T cells, and a subset of NK cells. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) and is a potent costimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells. No reactivity of JJ319 is observed on mouse T cells.

Applications Reported

The JJ319 antibody has been reported for use in flow cytometric analysis. It has also been reported in *in vitro* T cell costimulation.

Applications Tested

This JJ319 antibody has been tested by flow cytometric analysis of rat splenocyte suspensions. This can be used at less than or equal to 1.0 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Tacke, M., G. Hanke, T. Hanke, T. Hunig. CD28-mediated induction of proliferation in resting T cells in vitro and in vivo without engagement of the T cell receptor: evidence for functionally distinct forms of CD28. Eur J Immunol. 1997. 27:239-47.

Mitnacht, R., M. Tacke, T. Hunig. Expression of cell interaction molecules by immature rat thymocytes during passage through the CD4+8+ compartment: developmental regulation and induction by T cell receptor engagement of CD2, CD5, CD28, CD11a, CD44, and CD53. Eur J Immunol. 1995. 25:328-32.

Tacke, M., G.J. Clark, M.J. Dallman, T Hunig. Cellular distribution and costimulatory function of rat CD28. Regulated expression during thymocyte maturation and induction of cyclosporine A sensitivity of costimulated T cell responses by phorbol ester. J Immunol. 1995.154:5121-27.

Related Products

11-4011 Anti-Mouse IgG FITC
12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

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