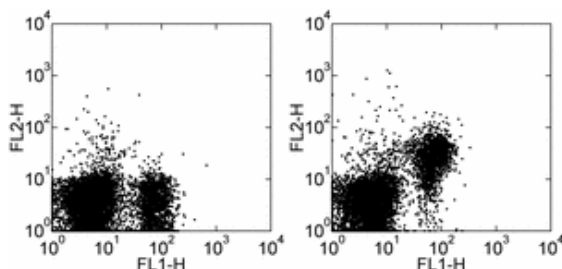


Anti-Mouse CD28 PE

Catalog Number: 12-0281

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.25 µg of Golden Syrian Hamster IgG Isotype Control PE (cat. 12-4914) (left) or 0.25 µg of Anti-Mouse CD28 PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD28 PE


REF Catalog Number: 12-0281

Clone: 37.51


Concentration: 0.2 mg/ml


Host/Isotype: Golden Syrian Hamster IgG

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.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The 37.51 monoclonal antibody reacts with the mouse CD28 molecule, a 45 kDa homodimer expressed by thymocytes, mature T cells and 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.

Applications Reported

The 37.51 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 37.51 antibody has been tested by flow cytometric analysis of mouse 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Note: It has been observed that increased incubations times (30-45 minutes) with the CD28 antibody can enhance the staining obtained.

References

- Nandi, D., J. A. Gross, et al. (1994). "CD28-mediated costimulation is necessary for optimal proliferation of murine NK cells." *J Immunol* 152(7): 3361-9.
- Gross, J. A., E. Callas, et al. (1992). "Identification and distribution of the costimulatory receptor CD28 in the mouse." *J Immunol* 149(2): 380-8.
- Harding, F. A., J. G. McArthur, et al. (1992). "CD28-mediated signalling co-stimulates murine T cells and prevents induction of anergy in T-cell clones." *Nature* 356(6370): 607-9.
- Gross, J. A., T. St. John, et al. (1990). "The murine homologue of the T lymphocyte antigen CD28. Molecular cloning and cell surface expression." *J Immunol* 144(8): 3201-10.

Related Products

12-4914 Golden Syrian Hamster IgG Isotype Control PE (n/a)