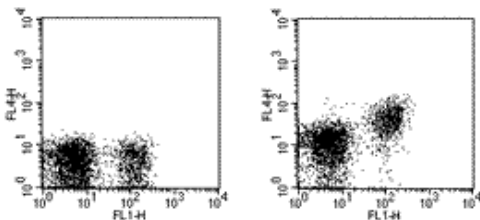


## Anti-Mouse CD28 APC

Catalog Number: 17-0281

RUO: For Research Use Only



Staining of BALB/c splenocytes with Anti-Mouse CD28e FITC (cat. 11-0031) and 0.25 µg of Golden Syrian Hamster IgG Isotype Control APC (cat. 17-4914) (left) or 0.25 µg of Anti-Mouse CD28 APC (right). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse CD28 APC


**REF** Catalog Number: 17-0281

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 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.

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

17-4914 Golden Syrian Hamster IgG Isotype Control APC (n/a)