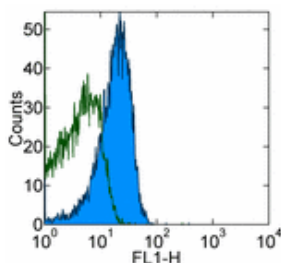


Anti-Mouse CD28 Purified

Catalog Number: 14-0281

RUO: For Research Use Only



Staining of BALB/c thymocytes with 0.25 µg of Golden Syrian Hamster IgG Isotype Control Purified (cat. 14-4914) (open histogram) or 0.25 µg of Anti-Mouse CD28 Purified (filled histogram) followed by Anti-Syrian Hamster IgG FITC (cat. 11-4211). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD28 Purified

 Catalog Number: 14-0281

Clone: 37.51

Concentration: 0.5 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.



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, immunoprecipitation, and immunohistochemical staining. 37.51 has also been reported in costimulation of T cells *in vitro* and *in vivo*. (Please use Functional Grade purified 37.51, cat. 16-0281, in functional assays.)

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

- 11-4211 Anti-Golden Syrian Hamster IgG FITC (Polyclonal)
- 11-4317 Streptavidin FITC
- 12-4317 Streptavidin PE
- 13-4213 Anti-Golden Syrian Hamster IgG Biotin (Polyclonal)
- 14-4914 Golden Syrian Hamster IgG Isotype Control Purified (n/a)
- 17-4317 Streptavidin APC

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