full spectrum cell analysis®
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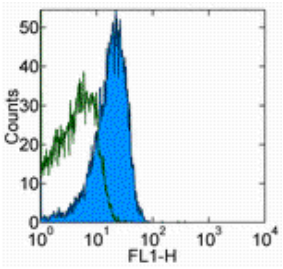
Anti-Mouse CD28 Functional Grade Purified

Catalog Number: 16-0281
RUO: For Research Use Only



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

Product Information

Contents: Anti-Mouse CD28 Functional Grade Purified
REF **Catalog Number:** 16-0281
Clone: 37.51
Concentration: 1 mg/ml
Host/Isotype: Golden Syrian Hamster IgG
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 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. 37.51 has also been reported in costimulation of T cells *in vitro* and *in vivo*.

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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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)
16-4914 Golden Syrian Hamster IgG Isotype Control Functional Grade Purified (n/a)
17-4317 Streptavidin APC

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