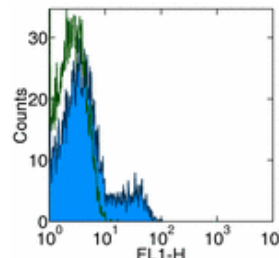


Product Information

Contents: Affinity Purified anti-mouse CD3
Catalog Number: 14-0032
Sizes: 50 ug, 100 ug, 500 ug, 1 mg
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: 17A2
Isotype: Rat IgG2b, κ



Surface staining of mouse thymocytes with purified anti-mouse CD3 (17A2) followed by anti-rat IgG FITC. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-0032	Affinity Purified Rat anti-mouse CD3 (CD3e)	N/A	N/A	FA FC
16-0032	Coming Soon! - Functional Grade* Purified Rat anti-mouse CD3 (CD3e)	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The 17A2 monoclonal antibody reacts with mouse CD3 complex. CD3 subunits γ , δ and ϵ are required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 17A2 to TCR initiates the intracellular biochemical pathway resulting in cellular activation and proliferation.

Usage

For research use only, not for diagnostic or therapeutic use. The 17A2 antibody has been reported for use in flow cytometric analysis. It has also been reported in *in vitro* activation of mouse T cells. (Please use Functional Grade purified 17A2 in functional assays).

Applications Tested

The 17A2 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.5 μg per million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 14-4031 Purified Rat IgG2b Isotype Control (clone eB149/10H5)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Miescher, G. C., M. Schreyer, et al. (1989). "Production and characterization of a rat monoclonal antibody against the murine CD3

molecular complex." Immunol Lett 23(2): 113-8.

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