

Product Information

Contents: Phycoerythrin (PE) anti-human CD3

Catalog Number: 12-0039

Sizes: 25 tests, 100 tests

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃, 0.2% BSA

Storage Conditions: Store at 4°C.

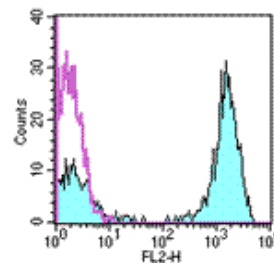
DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: HIT3a

Isotype: Mouse IgG2a, κ

HLDA No.: V 5T-CD03.05



Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (open histogram) or PE HIT3a (colored histogram). Cells in the lymphocyte gate were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0039	FITC anti-human CD3	488	518	FC
12-0039	PE anti-human CD3	488	575	FC
14-0039	Affinity Purified anti-human CD3	N/A	N/A	FC
16-0039	Functional Grade* Purified anti-human CD3	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 HIT3a monoclonal antibody reacts with human CD3ε, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits γ and δ, the ε chain is 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. Crosslinking of TCR with HIT3a initiates an intracellular biochemical pathway resulting in cellular activation and proliferation.

Usage

For research use only, not for diagnostic or therapeutic use. The HIT3a antibody has been reported for use in flow cytometric analysis.

Applications Tested

The HIT3a antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 20 μl per 100 μl blood (or per 1 million cells in 100 μl total staining volume).

Related Products

- Cat. 11-0037 FITC anti-human CD3 (clone OKT3)
- Cat. 12-0037 PE anti-human CD3 (clone OKT3)
- Cat. 14-0037 Affinity Purified anti-human CD3 (clone OKT3)
- Cat. 16-0037 Functional Grade Purified anti-human CD3 (clone OKT3)
- Cat. 10-0038 APC-Cy7 anti-human CD3 (clone UCHT1)
- Cat. 11-0038 FITC anti-human CD3 (clone UCHT1)
- Cat. 12-0038 PE anti-human CD3 (clone UCHT1)
- Cat. 13-0038 Biotin anti-human CD3 (clone UCHT1)
- Cat. 14-0038 Affinity Purified anti-human CD3 (clone UCHT1)

Cat. 15-0038 PE-Cy5 anti-human CD3 (clone UCHT1)
Cat. 16-0038 Functional Grade Purified anti-human CD3 (clone UCHT1)
Cat. 17-0038 APC anti-human CD3 (clone UCHT1)
Cat. 25-0038 PE-Cy7 anti-human CD3 (clone UCHT1)
Cat. 11-0039 FITC anti-human CD3 (clone HIT3a)
Cat. 14-0039 Affinity Purified anti-human CD3 (clone HIT3a)
Cat. 16-0039 Functional Grade Purified anti-human CD3 (clone HIT3a)
Cat. 12-4724 Phycoerythrin (PE) Mouse IgG2a, K Isotype Control

References

McMichael, A.J., P.C.L. Beverly, et al. eds. (1987). Leucocyte Typing III: White Cell Differentiation Antigens. Oxford University Press. New York.
Knapp, W., B. Dorken, et al. eds. (1989). Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press. New York.
Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.

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