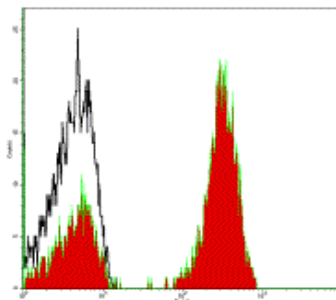


## Product Information

Contents: Affinity Purified anti-human CD3  
Catalog Number: 14-0039  
Sizes: 25 ug, 100 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
Avoid repeated freeze/thaw cycles.  
Clone: HIT3a  
Isotype: Mouse IgG2a, κ  
HLDA No.: V 5T-CD03.05



Profile of purified mAb HIT3a (CD3) staining on human peripheral blood lymphocytes and detection with FITC anti-mouse IgG (cat.no. 11-4011)

### 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 CD3e, 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 tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 0.25 μg per 100 μl blood (or per 1 million cells in 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. 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. 12-0039 PE anti-human CD3 (clone HIT3a)  
Cat. 16-0039 Functional Grade Purified anti-human CD3 (clone HIT3a)  
Cat. 11-4011 FITC Anti-Mouse IgG  
Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)  
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)  
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 14-4724 Affinity Purified 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.

Copyright © 2000-2005 eBioscience, Inc.  
Product For Research Use Only: Not for further distribution without written consent.

