

## **Product Data Sheet**

102

Log Fluoresence Intensity

Human peripheral blood lymphocytes

stained with purified HIT3a and detected with anti-mouse IgGs FITC

103

10<sup>4</sup>

## **Purified anti-human CD3**

Catalog # / Size: 300301 / 25 µg

300302 / 100 µg

Clone: HIT3a

**Isotype:** Mouse IgG2a, κ

Workshop Number: V CD03.05

Reactivity: Human

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

## **Applications:**

Applications: FC - Quality tested

IP, IHC - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections, immunoprecipitation, and activation of T lymphocytes<sup>4-7</sup>. The HIT3a antibody is able to stimulate T cell activation. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 300314). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 300332) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/μg).

**Application References:** 1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.

3. Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego. 4. Sedelies KA, et al. 2004. J. Biol. Chem. 279:26581. (Activ)

5. Rivollier A, et al. 2004. Blood 104:4029. (Activ)

6. Scharschmidt E, *et al.* 2004. *Mol. Cell Biol.* 24:3860. (Activ) 7. Smeltz RB. 2007. *J. Immunol.* 178:4786. (Activ)

8. Kilpinen L, et al. 2013. J Lipid Res. 54:622. PubMed.

Description: CD3ε is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is composed of two CD3ε, one CD3γ, one

CD3 $\delta$ , one CD3 $\zeta$  (CD247), and a T-cell receptor ( $\alpha$ / $\beta$  or  $\gamma$ / $\delta$ ) heterodimer. It is found on all mature T lymphocytes, NK-T cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays

RPA-T8

UCHT1

Poly4053

Poly4053

Polv4053

MOPC-173 Poly4053

a role in antigen recognition, signal transduction, and T cell activation.

Antigen References: 1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.

2. Beverly P, et al. 1981. Eur. J. Immunol. 11:329.

3. Lanier L, et al. 1986. J. Immunol. 137:2501-2507.

**Related Products: Product** 

Purified anti-human CD19 Purified anti-human CD8a Purified anti-human CD4 Purified anti-human CD8a Purified anti-human CD3 APC Goat anti-mouse IgG (minimal x-reactivity)

Biotin Goat anti-mouse IgG (minimal x-reactivity) HRP Goat anti-mouse IgG (minimal x-reactivity) Purified Mouse IgG2a, κ Isotype Ctrl

PE Goat anti-mouse IgG (minimal x-reactivity)

Cell Staining Buffer RBC Lysis Buffer (10X) Clone Application FC, IHC, CyTOF® HIB19 HIT8a FC, IHC RPA-T4

100

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FC, IHC, CyTOF®
FC, IHC, CyTOF®
FC, IHC, IP, WB, CyTOF®

FC

FC, ELISA, IHC, IF, WB ELÍSA, IHĆ, WB FC, ICC, IF, IHC, IP, WB

FC FC, ICC, ICFC FC, ICFC

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