

Product Data Sheet

PE anti-human CD3

Catalog # / Size: 300307 / 25 tests

300308 / 100 tests

Clone: HIT3a

Isotype: Mouse IgG2a, κ

Workshop Number: V CD03.05

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with

PE under optimal conditions. The solution is free of unconjugated PE and

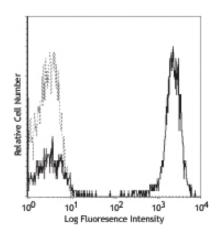
unconjugated antibody.

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

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with HIT3a PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test

size products are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at

www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections, immunoprecipitation, and activation of T lymphocytes⁴⁻⁷. 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).

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

3. Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.

4. Sedeliés 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)

Smeltz RB. 2007. J. Immunol. 178:4786. (Activ)

8. Enghard P, et al. 2013. Ann Rheum Dis. 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 CD3δ, one CD3ζ (CD247), and a T-cell receptor $(\alpha/\beta \text{ or } \gamma/\delta)$ 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

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 Clone Application

PE anti-human CD19 HIB19 FC FC FC FC PE anti-human CD8a HIT8a PE anti-human CD4 RPA-T4 RPA-T8 PE anti-human CD8a PE anti-human CD3 UCHT1

PE Mouse IgG2a, κ Isotype Ctrl **MOPC-173** FC, ICFC FC, ICC, ICFC FC, ICFC Cell Staining Buffer RBC Lysis Buffer (10X) FC, ICC, ICFC

Human TruStain FcX™ (Fc Receptor Blocking Solution)



