

## **Product Data Sheet**

## PE anti-human CD3

Catalog # / Size: 317307 / 25 tests

317308 / 100 tests

Clone: OKT3

**Isotype:** Mouse IgG2a, κ

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

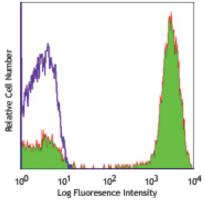
unconjugated antibody.

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 OKT3 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 \muI to 5 \muI per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 \muI staining volume or per 100 \muI 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: Clone OKT3 can block the binding of clones SK7 and UCHT1.8 The OKT3 antibody is able to induce T cell activation. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections and activation of T cells. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 317304). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 317326) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/μg).

**Application References:** 

- 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.
- 3. Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
  4. Jeong HY, et al. 2008. J. Leuckocyte Biol. 83:755. PubMed
  5. Alter G, et al. 2008. J. Virol. 82:9668. PubMed

- 6. Manevich-Mendelson E, et al. 2009. Blood 114:2344. PubMed 7. Biggs MJ, et al. 2011. J. R. Soc. Interface. 8:1462. PubMed
- 8. Li B, et al. 2005. Immunology 116:487.

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 (α/β or γ/δ) 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.

Related Products: Product

Clone Application FC, ICC, ICFC Cell Staining Buffer FC, ICFC

RBC Lysis Buffer (10X) **MOPC-173** 

PE Mouse IgG2a, κ Isotype Ctrl (FC) Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



