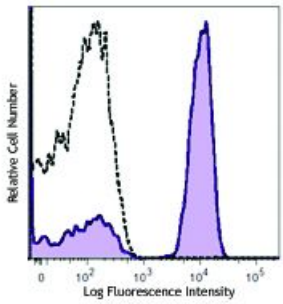
SONY

Product Data Sheet

PerCP anti-human CD3

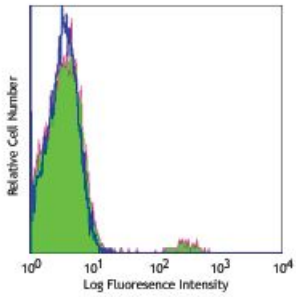
Catalog # / Size:	2186685 / 25 tests 2186690 / 100 tests
Clone:	OKT3
Isotype:	Mouse IgG2a, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD3 (clone OKT3) PerCP (filled histogram) or mouse IgG2a, κPerCP isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.



Human peripheral blood lymphocytes stained with MEM-262 FITC

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Application Notes:

The OKT3 monoclonal antibody reacts with an epitope on the epsilon-subunit within the human CD3 complex.

Clone OKT3 can block the binding of clones SK7 and UCHT1.4 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/microg).

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. Li B, *et al.* 2005. *Immunology* 116:487.
5. Jeong HY, *et al.* 2008. *J. Leuckocyte Biol.* 83:755. PubMed
6. Alter G, *et al.* 2008. *J. Virol.* 82:9668. PubMed
7. Manevich-Mendelson E, *et al.* 2009. *Blood* 114:2344. PubMed
8. Pinto JP, *et al.* 2010. *Immunology.* 130:217. PubMed
9. Biggs MJ, *et al.* 2011. *J. R. Soc. Interface.* 8:1462. PubMed

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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.

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