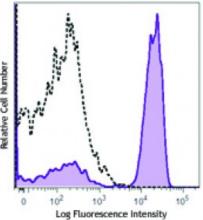
Product Data Sheet

APC/Cy7 anti-human CD3

Catalog # / Size:	2186705 / 25 tests 2186710 / 100 tests	
Clone:	ОКТЗ	
Isotype:	Mouse IgG2a, κ	nber
Reactivity:	Human	all Nur
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.	Relative Cell
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Hu
Concentration:	Lot-specific	lyn (cl



Human peripheral blood lymphocytes were stained with CD3 (clone OKT3) APC/Cy7 (filled histogram) or mouse IgG2a, ĸ APC/Cy7 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
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:	 Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York. Barclay N, <i>et al.</i> 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego. Li B, <i>et al.</i> 2005. <i>Immunology</i> 116:487. Jeong HY, <i>et al.</i> 2008. <i>J. Leuckocyte Biol.</i> 83:755. PubMed Alter G, <i>et al.</i> 2008. <i>J. Virol.</i> 82:9668. PubMed Manevich-Mendelson E, <i>et al.</i> 2009. <i>Blood</i> 114:2344. PubMed Pinto JP, <i>et al.</i> 2010. <i>Immunology</i>. 130:217. PubMed Biggs MJ, <i>et al.</i> 2011. <i>J. R. Soc. Interface.</i> 8:1462. PubMed

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Description:	CD3 ϵ is a 20 kD chain of the CD3/T cell receptor (TCR) complex, which is composed of two CD3 ϵ , one CD3 γ , one CD3 δ , one CD3 ζ (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
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.