

Product Data Sheet

LEAF[™] Purified anti-human CD3

Catalog # / Size:	317303 / 50 μg 317304 / 500 μg 317315 / 1 mg			
Clone:	OKT3			
Isotype:	Mouse IgG2a, κ	ja ja	. 🔒 🗌	
Reactivity:	Human	E		
Preparation:	The LEAF™ (Low Endotoxin, Azide-Free) antibody was pur chromatography.	ified by affinity		
Formulation:	0.2 μm filtered in phosphate-buffered solution, pH 7.2, contropreservative. Endotoxin level is <0.1 EU/ μg of the protein (< protein) as determined by the LAL test.	aining no 🕺 x0.01 ng/µg of the		
Concentration:	1.0 mg/ml		and the second sec	
Storage:	The CD3 antibody solution should be stored undiluted at 4° solution contains no preservative; handle under aseptic cor		0 ⁰ 10 ¹ 10 ² 10 ³ 10 ⁴ Log Fluoresence Intensity	
Application	าร:		Human peripheral blood lymphocytes stained with LEAF™ purified OKT3, followed by anti-mouse IgG FITC	
Applications:	FC - Quality tested IHC, Activ - 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 ≤2.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.			
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. Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego. Jeong HY, et al. 2008. J. Leuckocyte Biol. 83:755. PubMed Alter G, et al. 2008. J. Virol. 82:9668. PubMed Manevich-Mendelson E, et al. 2009. Blood 114:2344. PubMed Biggs MJ, et al. 2011. J. R. Soc. Interface. 8:1462. PubMed Li B, et al. 2005. Immunology 116:487. 			
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 References:	1. Barclay N, <i>et al.</i> 1993. The Leucocyte FactsBook. Academic Press. San Diego. 2. Beverly P, <i>et al.</i> 1981. <i>Eur. J. Immunol.</i> 11:329. 3. Lanier L, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:2501.			
Related Products	:Product LEAF™ Purified Mouse IgG2a, κ Isotype Ctrl	Clone MOPC-173	Application FC, WB, IP, ICFC, ICC, IF, IHC, FA	
	Cell Staining Buffer RBC Lysis Buffer (10X)		FC, ICC, ICFC FC, ICFC	



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