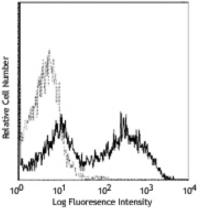


Product Data Sheet

LEAF[™] Purified anti-human CD154

Catalog # / Size:	310811 / 50 μg 310812 / 500 μg
Clone:	24-31
Isotype:	Mouse IgG1, κ
Reactivity:	Human, Cross-Reactivity: Cynomolgus, Rhesus
Preparation:	The LEAF [™] (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Formulation:	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.
Concentration:	1.0 mg/ml
Storage:	The CD154 antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:



PMA+ionomycin-stimulated human PBMCs (6 hours) stained with CD154 (clone 24-31) PE

Applications:	FC - Quality tested Block, IF - Reported in the literature		(clone 24-31) PE	
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 $\leq 2.0 \ \mu$ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.			
Application Notes:	Additional reported applications (for the relevant forma T cell-dependent B cell differentiation ^{1,2,4,5} . The LEAF filtered) is recommended for functional assays (Cat. No Ultra-LEAF™ purified antibody (Cat. No. 310828) with a antibodies (Endotoxin <0.01 EU/µg).	™ purified antibody (End o. 310812). For highly se	lotoxin <0.1 EU/μg, Azide-Free, 0.2 μm ensitive assays, we recommend	
Application References:	 Brams P, et al. 2001. Int. Immunopharmacol. 1:277. Rushworth SA, et al. 2002. Transplantation 73:635. Berner B, et al. 2000. Ann. Rheum. Dis. 59:190. (IF) Nordström T, et al. 2006. J. Leukocyte Biol. 79:319. Zhang AL, et al.2007. Blood doi:10.1182/blood-2007. Kuchen S, et al. 2007. J. Immunol. 179:5886. Matus-Nicodermos R, et al. 2011. J. Immunol. 186 	(Block) (Block) 7-02-076364. (Block) Pu	bMed	
Description:	CD154 (CD40 ligand) is also known as CD40L, gp39, TRAP and T-BAM. CD40 ligand is a 32-39 kD type II transmembrane glycoprotein. It is a member of the TNF superfamily and is expressed on activated T cells. It has been reported to be important for B cell costimulation following binding of its receptor, CD40. Additionally, binding of CD40L to CD40 on B cells promotes the secretion of immunoglobulin and Ig isotype switching. CD40L is also involved in the regulation of cytokine production by T cells.			
Antigen References:	1. Najafian N, et al. 2003. Expert Opin. Biol. Ther. 3:22 2. Racke M, et al. 2002. Expert Opin. Ther. Targets. 6: 3. Ford G, et al. 1999. J. Immunol. 162:4037.			
Related Products	: Product	Clone	Application	

ducts: Product	Cione	
LEAF™ Purified anti-human CD40	G28.5	
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	

Application FC, FA, WB, IF FC, ICFC, WB, IP, ICC, IF, FA



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