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Product Data Sheet

Alexa Fluor® 488 anti-human CD154

Applications: FC - Quality tested

Clone:	24-31
Isotype:	Mouse IgG1, κ

Reactivity: Human, Cross-Reactivity: Cynomolgus, Rhesus

- Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.
- 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.

Applications:

Relative Cell Number 100 103 102 101 Log Fluoresence Intensity TPA+ ionomycin-stimulated human PBMCs (5 hours) stained with 24-31 d Usage: Each lot of this antibody is quality control tested by immunofluorescent

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 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.		
	* Alexa Fluor® 488 has a maximum emission of 519 nm wh 488 nm. ** Alexa Fluor® is a registered trademark of Molecular Prob Fluor® dye antibody conjugates are sold under license from Probes, Inc. for research use only, except for use in combin microarrays and high content screening, and are covered by issued patents.	es, Inc. Alexa Molecular ation with	
Application Notes:	Additional reported applications (for the relevant formats) include: immunofluorescence microscopy ^{1,3} and blocking of T cell-dependent B cell differentiation ^{1,2,4,5} . The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 310812). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 310828) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).		
Application References:	 Brams P, et al. 2001. Int. Immunopharmacol. 1:277. (Block, IF) Rushworth SA, et al. 2002. Transplantation 73:635. (Block) Berner B, et al. 2000. Ann. Rheum. Dis. 59:190. (IF) Nordström T, et al. 2006. J. Leukocyte Biol. 79:319. (Block) Zhang AL, et al.2007. Blood doi:10.1182/blood-2007-02-076364. (Block) PubMed Kuchen S, et al. 2007. J. Immunol. 179:5886. Matus-Nicodermos R, et al. 2011. J. Immunol. 186:2164. PubMed 		
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:	 Najafian N, et al. 2003. Expert Opin. Biol. Ther. 3:227. Racke M, et al. 2002. Expert Opin. Ther. Targets. 6:275. Ford G, et al. 1999. J. Immunol. 162:4037. 		
Related Products	:Product Cell Staining Buffer RBC Lysis Buffer (10X) Alexa Fluor® 488 Mouse IgG1, κ Isotype Ctrl (FC) Human TruStain FcX™ (Fc Receptor Blocking Solution)	Clone MOPC-21	Application FC, ICC, ICFC FC, ICFC FC, IF FC, ICC, ICFC



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