

## **Product Data Sheet**

## APC anti-human CD154

Catalog # / Size: 310809 / 25 tests

310810 / 100 tests

**Clone: 24-31** 

**Isotype:** Mouse IgG1,  $\kappa$ 

Reactivity: Human, Cross-Reactivity: Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography, and conjugated with

APC under optimal conditions. The solution is free of unconjugated APC and

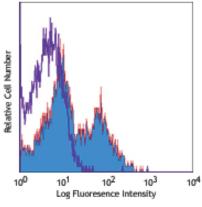
unconjugated antibody.

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.



TPA+ ionomycin-stimulated human PBMCs (5 hours) stained with 24-31

## **Applications:**

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. **Test size products are transitioning from 20 \muI to 5 \muI per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 \muI staining volume or** per 100 µl of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence microscopy<sup>1,3</sup> and blocking of T cell-dependent B cell differentiation<sup>1,2,4,5</sup>. 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 ÉÙ/µg).

Application References: 1. Brams P, et al. 2001. Int. Immunopharmacol. 1:277. (Block, IF)

2. Rushworth SA, et al. 2002. Transplantation 73:635. (Block)

3. 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

6. Kuchen S, et al. 2007. J. Immunol. 179:5886.

7. 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: 1. Najafian N, et al. 2003. Expert Opin. Biol. Ther. 3:227.

Racke M, et al. 2002. Expert Opin. Ther. Targets. 6:275.

3. Ford G, et al. 1999. J. Immunol. 162:4037.

Related Products: Product PE anti-human CD40

APC Mouse IgG1,  $\kappa$  Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Application Clone G28.5

MOPC-21 FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC



