

## **Product Data Sheet**

## PE/Cy5 anti-human CD154

Catalog # / Size: 310807 / 25 tests

310808 / 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

PE/Cy5 under optimal conditions. The solution is free of unconjugated

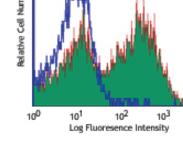
PE/Cy5 and unconjugated antibody.

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 (6 hours) stained with 24-31 PE/Cv5

10<sup>4</sup>

## **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 \muI 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).

> Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

- Application References: 1. Brams P, et al. 2001. Int. Immunopharmacol. 1:277. (Block, IF)
  - 2. 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.
  - 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.

Clone

- Antigen References: 1. Najafian N, et al. 2003. Expert Opin. Biol. Ther. 3:227.
  - 2. Racke M, et al. 2002. Expert Opin. Ther. Targets. 6:275.
  - 3. Ford G, et al. 1999. J. Immunol. 162:4037.

Related Products: Product

**Application** PE anti-human CD40 G28.5 PE/Cy5 Mouse IgG1, κ Isotype Ctrl MOPC-21

Cell Staining Buffer RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC



