10³

102 Log Fluoresence Intensity

TPA+ ionomycin-stimulated human

PBMCs (6 hours) stained with 24-31

10⁴



Product Data Sheet

Relative Cell Numbe

10⁰

FITC anti-human CD154

Catalog # / Size: 310804 / 100 tests

Clone: 24-31

Isotype: Mouse IgG1, κ

Reactivity: Human, Cross-Reactivity: Cynomolgus, Rhesus

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

FITC under optimal conditions. The solution is free of unconjugated FITC.

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:

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 μ I to 5 μ I per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl 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^{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-LÉAF™ purified antibody (Cat. No. 310828) with a lower endotoxin limit than standard LÉAF™ purified

antibodies (Endotoxin <0.01 EU/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)
 4. Nordström T, et al. 2006. J. Leukocyte Biol. 79:319. (Block)
 - 5. 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
 - 8. Lindner S, et al. 2013. Cancer Res. 73:2468. 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.

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 Clone Application

FITC anti-human CD40 G28.5 FC, ICFC FITC Mouse IgG1, κ Isotype Ctrl MOPC-21 Cell Staining Buffer FC, ICC, ICFC

FC, ICFC RBC Lysis Buffer (10X) Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



