

CD154 (CD40 Ligand) Monoclonal Antibody (24-31), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Cynomolgus monkey, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	24-31
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2717003

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	2 Publications

Product Specific Information

Description: The 24-31 monoclonal antibody reacts with human CD154, a 39 kDa transmembrane glycoprotein also known as gp39 and CD40 ligand (CD40L). CD154 is a member of the TNF superfamily and is expressed transiently by activated T cells. Through its binding to CD40 on antigen presenting cells including B cells, monocytes/macrophages and dendritic cells, CD154 serves a crucial function in T-APC cognate interaction. CD154 interaction with CD40 transduces signals for T-dependent B-cell activation and induces B cell cycle entry. 24-31 cross-reacts with the cynomolgus monkey CD154.

Applications Reported: This 24-31 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 24-31 antibody has been pre-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

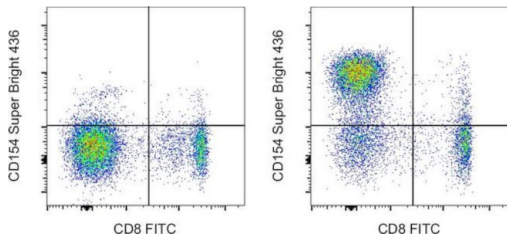
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD154 (CD40 Ligand) Monoclonal Antibody (24-31), Super Bright™ 436, eBioscience™



CD154 (CD40 Ligand) Antibody (62-1548-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated for 5 hours with the Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975) (right). Cells were then stained with CD8 Monoclonal Antibody, FITC (Product # 11-0088) and CD154 (CD40 Ligand) Monoclonal Antibody, Super Bright 436 (Product # 62-1548-42). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Cells

Cell-Based Models of 'Cytokine Release Syndrome' Endorse CD40L and Granulocyte-Macrophage Colony-Stimulating Factor Knockout in Chimeric Antigen Receptor T Cells as Mitigation Strategy.

"Published figure using CD154 (CD40 Ligand) monoclonal antibody (Product # 62-1548-42) in Flow Cytometry"

Authors: Dibas A,Rhiel M,Patel VB,Andrieux G,Boerries M,Cornu TI,Alzubi J,Cathomen T

Year
2023

Cell

Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19.

"Published figure using CD154 (CD40 Ligand) monoclonal antibody (Product # 62-1548-42) in Flow Cytometry"

Authors: Rodda LB,Netland J,Shehata L,Pruner KB,Morawski PA,Thouvenel CD,Takehara KK,Eggenberger J,Hemann EA,Waterman HR,Fahning ML,Chen Y,Hale M,Rathe J,Stokes C,Wrenn S,Fiala B,Carter L,Hamerman JA,King NP, Gale M,Campbell DJ,Rawlings DJ,Pepper M

Year
2021

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