

CD154 (CD40 Ligand) Monoclonal Antibody (24-31), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	24-31
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573410

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 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-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

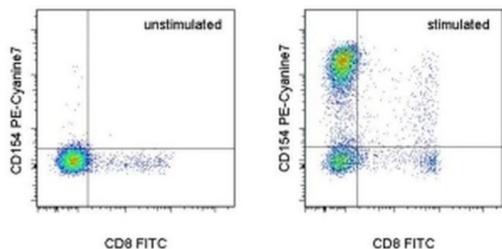
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD154 (CD40 Ligand) Monoclonal Antibody (24-31), PE-Cyanine7, eBioscience™



CD154 (CD40 Ligand) Antibody (25-1548-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated for 5 hours with Cell Stimulation Cocktail (500X) (Product # 00-4970-03) (right) then stained with Anti-Human CD8a FITC (Product # 11-0088-42) and Anti-Human CD154 (CD40 Ligand) PE-Cyanine7. Total viable cells, as determined by Fixable Viability Dye eFluor® 506 (Product # 65-0866-14), were used for analysis.

[View more figures on thermofisher.com](#)

2 References

Flow Cytometry (2)

Cell

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

"Published figure using CD154 (CD40 Ligand) monoclonal antibody (Product # 25-1548-42) 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

Oncology letters

Photodynamic therapy reduces the inhibitory effect of osteosarcoma cells on dendritic cells by upregulating HSP70.

"Published figure using CD154 (CD40 Ligand) monoclonal antibody (Product # 25-1548-42) in Flow Cytometry"

Authors: Zhang F, Zhu Y, Fan G, Hu S

Year
2018

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