

# 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 10<sup>4</sup> to 10<sup>8</sup> cells/test.

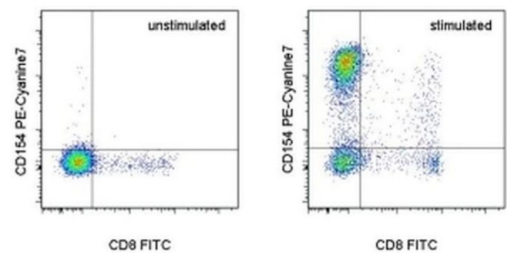
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**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	Year
<b>Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19.</b> "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	2021
Oncology letters	Year
<b>Photodynamic therapy reduces the inhibitory effect of osteosarcoma cells on dendritic cells by upregulating HSP70.</b> "Published figure using CD154 (CD40 Ligand) monoclonal antibody (Product # 25-1548-42) in Flow Cytometry" Authors: Zhang F,Zhu Y,Fan G,Hu S	2018

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