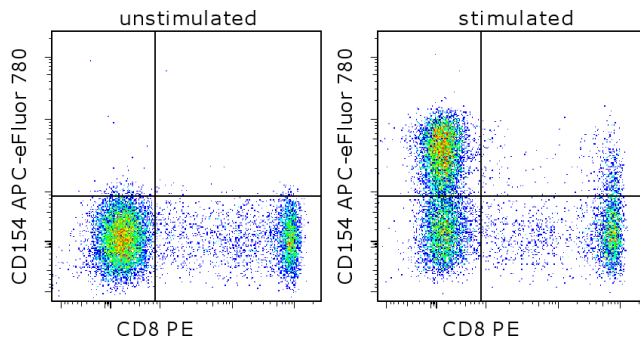


Anti-Human CD154 (CD40 Ligand) APC-eFluor® 780

Catalog Number: 47-1548

Also known as: CD40L

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of unstimulated (left) or 6-hour PMA/Ionomycin-stimulated (right) normal human peripheral blood cells with Anti-Human CD8 PE (cat. 12-0089) and Anti-Human CD154 (CD40 Ligand) APC-eFluor® 780 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD154 (CD40 Ligand) APC-eFluor® 780

Catalog Number: 47-1548

Clone: 24-31

Concentration: 5 uL (0.125 ug)/test

Host/Isotype: Mouse IgG1, kappa

HLDA Workshop: N/A

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

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 PMA and ionomycin 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.

APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: Tandem is sensitive 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 uL cell sample + 100 uL 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

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brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Brams, P., A. Black, et al. 2001. A humanized anti-human CD154 monoclonal antibody blocks CD154-CD40 mediated human B cell activation. *Int Immunopharmacol* 1(2): 277-94.

Related Products

12-0089 Anti-Human CD8a PE (HIT8a)

47-4714 Mouse IgG1 K Isotype Control APC-eFluor® 780 (P3.6.2.8.1)

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