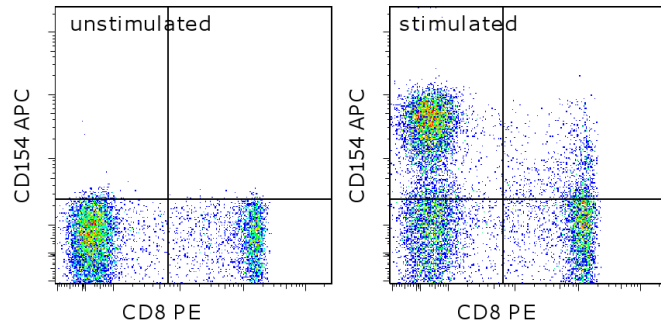


## Anti-Human CD154 (CD40 Ligand) APC

**Catalog Number:** 17-1548

**Also known as:** CD40L

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



Staining of unstimulated (left) or stimulated for 6 hours using Cell Stimulation Cocktail (500X) (cat. 00-4970) (right) normal human peripheral blood cells with Anti-Human CD8a PE (cat. 12-0088) and Anti-Human CD154 (CD40 Ligand) APC. Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD154 (CD40 Ligand) APC

**Catalog Number:** 17-1548

**Clone:** 24-31

**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/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.

**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 activated human peripheral blood leukocytes. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### 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

00-4970 Cell Stimulation Cocktail (500X)

12-0087 Anti-Human CD8a PE (SK1 (SK-1))

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)

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