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## Anti-Human CD154 (CD40 Ligand) Functional Grade Purified

**Catalog Number:** 16-1548

**Also Known As:** CD40L

**RUO: For Research Use Only**

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### Product Information

**Contents:** Anti-Human CD154 (CD40 Ligand) Functional Grade Purified

**REF** **Catalog Number:** 16-1548

**Clone:** 24-31

**Concentration:** 1 mg/mL

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** N/A

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

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### 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

24-31 has been reported for use in flow cytometric analysis. 24-31 has also been reported to block CD154 binding to CD40 and inhibit T cell-dependent B cell differentiation and antibody response *in vitro*.

### Applications Tested

The 24-31 antibody has been tested by flow cytometric analysis of activated human peripheral blood leukocytes. This can be used at less than or equal to 1 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>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### 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

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified

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