
Anti-Human CD154 (CD40 Ligand) Purified

Catalog Number: 14-1548

Also Known As: CD40L

RUO: For Research Use Only

Product Information

Contents: Anti-Human CD154 (CD40 Ligand) Purified

 **Catalog Number:** 14-1548

Clone: 24-31

Concentration: 0.5 mg/mL

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.



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

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*. (Please use Functional Grade® Purified 24-31, cat. 16-1548, in functional assays.)

Applications Tested

The 24-31 antibody has been tested by flow cytometric analysis of resting and activated human PBMC. 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 10⁵ to 10⁸ 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

14-4714 Mouse IgG1 K Isotype Control Purified

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