

## Anti-Hu CD154 Purified Cd40lg Monoclonal Antibody

Catalog Number: M01114-2

### About CD40LG

CD154 / CD40L (CD40 ligand) is a member of the tumor necrosis factor family, and is expressed primarily on activated CD4+ lymphocytes, but also on mast cells, basophils, eosinophils and human dendritic cells. Its counter-receptor CD40 is expressed on antigen presenting cells, including dendritic cells, macrophages, and B cells, and also on fibroblasts. Triggering of CD40 by CD40L causes maturation of dendritic cells and upregulation of antigen presentation in functions of the MHC and costimulatory molecules. CD40L also functions as a direct stimulating factor for T cells. CD40L plays also roles e.g. in antibody class switching and modulation of apoptosis in the germinal center.

### Overview

Product Name	Anti-Hu CD154 Purified Cd40lg Monoclonal Antibody
Reactive Species	Human, Primate
Description	Boster Bio Anti-Hu CD154 Purified Cd40lg Monoclonal Antibody (Catalog# M01114-2). Tested in Flow Cytometry, ICC application(s). This antibody reacts with Human, Primate.
Application	Flow Cytometry, ICC
Clonality	Monoclonal 24-31
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P27548

### Technical Details

Immunogen	Human CD154 fusion protein. The mouse monoclonal antibody 24-31 detects an extracellular epitope of CD154 / CD40L (CD40-ligand), a 39 kDa cell surface type II glycoprotein expressed predominantly on activated CD4+ lymphocytes.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Flow cytometry: 2-6 ug/ml.

## Anti-Hu CD154 Purified Cd40Ig Monoclonal Antibody (M01114-2) Images

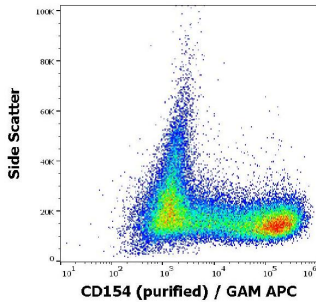


Figure 1. Flow Cytometry validation of Cd40Ig using Anti-Hu CD154 Purified Cd40Ig Monoclonal Antibody (M01114-2).

Flow cytometry surface staining pattern of human peripheral blood mononuclear cells (PMA + ionomycin activated) stained using anti-human CD154 (24-31) purified antibody (concentration in sample 2 ug/ml) GAM APC.

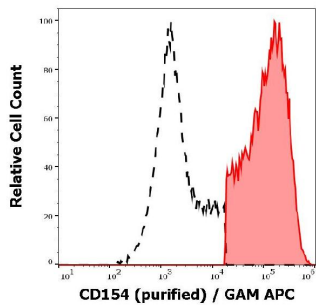


Figure 2. Flow Cytometry validation of Cd40Ig using Anti-Hu CD154 Purified Cd40Ig Monoclonal Antibody (M01114-2).

Separation of human CD154 positive cells (red-filled) from CD154 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral blood mononuclear cells (PMA + ionomycin activated) stained using anti-human CD154 (24-31) purified antibody (concentration in sample 2 ug/ml) GAM APC.

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