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30-1564-B: Anti-CD154 / CD40L Monoclonal Antibody (Clone: 24-31) Biotin Conjugated

Clonality :	Monoclonal
Clone Name :	24-31
Application :	ICC,FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	Biotin
Gene :	CD40LG
Gene ID :	959
Uniprot ID :	P29965
Alternative Name :	CD40LG,CD40L,TNFSF5,TRAP
Isotype :	Mouse IgG1
Immunogen Information :	human CD154 fusion protein

Description

Specificity: 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.

Description: 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.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1-5 µg/ml

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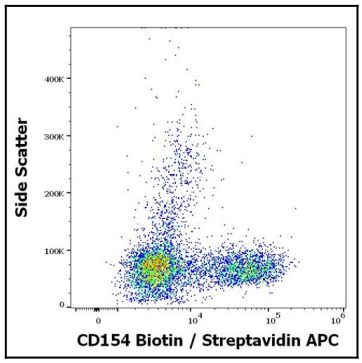


Figure 1: Flow cytometry surface staining pattern of human stimulated (PMA+Ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) biotin antibody (concentration in sample 1.67 µg/ml, Streptavidin APC).

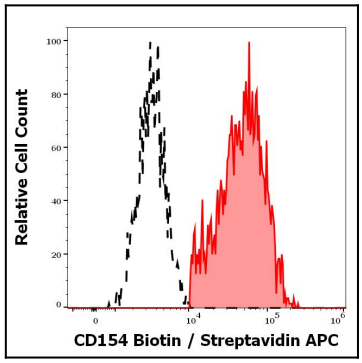


Figure 2: Separation of human CD3 positive CD54 positive lymphocytes (red-filled) from CD3 negative CD54 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (PMA+Ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) biotin antibody (concentration in sample 1.67 µg/ml, Streptavidin APC).

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