

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

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

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 :	100 Tests
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C protected from light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

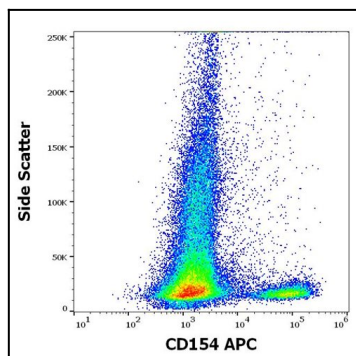


Figure 1: Flow cytometry surface staining pattern of human stimulated (PHA + ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) APC antibody (10 µl reagent per million cells in 100 µl of cell suspension).

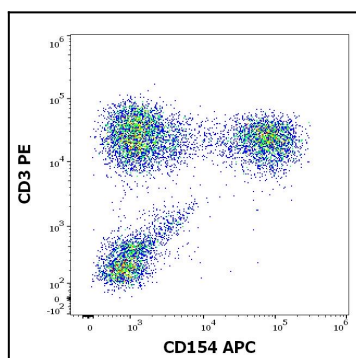


Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD154 (24-31) APC antibody (10 µl reagent per million cells in 100 µl of cell suspension) and anti-human CD3 (UCHT1) PE antibody (20 µl reagent per million cells in 100 µl of cell suspension).

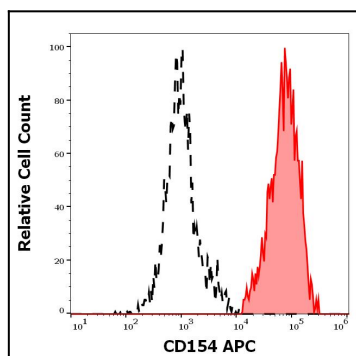


Figure 3: Separation of human lymphocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (PHA + ionomycin) peripheral blood mononuclear cells stained using anti-human CD154 (24-31) APC antibody (10 µl reagent per million cells in 100 µl of cell suspension).