

Datasheet for ABIN5710572
anti-CD40 Ligand antibody (FITC)



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2 Images

Overview

Quantity:	100 tests
Target:	CD40 Ligand (CD40LG)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 Ligand antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD154 FITC
Immunogen:	human CD154 fusion protein
Clone:	24-31
Isotype:	IgG1
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.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD154 (CD40LG Products)
Background:	CD40 ligand,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.,CD40L, CD40 ligand, TNFSF5, Ly62, gp39, T-BAM
Gene ID:	21947
UniProt:	P27548
Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

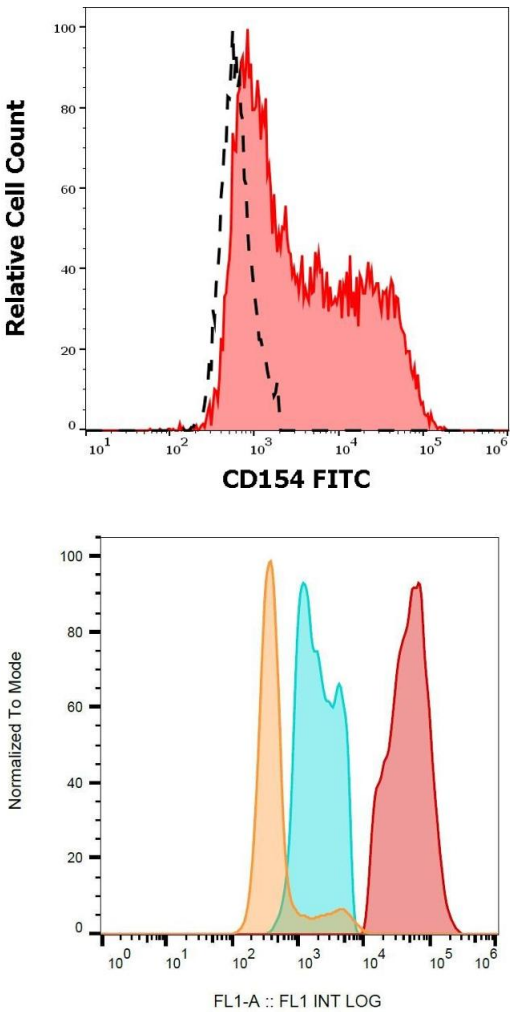
Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage:	4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Separation of PMA/Ionomycin activated PBMCs stained using anti-human CD154 (24-31) FITC antibody (4 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from PMA/Ionomycin activated PBMCs stained using mouse IgG1 isotype control (MOPC-21) FITC antibody (concentration in sample 3 μ g/mL, same as CD154 FITC concentration, black-dashed) in flow cytometry analysis (surface staining) of PMA/Ionomycin activated PBMCs.

Flow Cytometry

Image 2. Flow cytometry detection of CD154 / CD40L in IgE-activated human peripheral blood with anti-CD154 / CD40L (24-31) FITC. Orange = blank, blue = CD154 negative cells, red = CD154 positive cells.