

1P-781-T025

## Monoclonal Antibody to CD154 / CD40L Phycoerythrin (PE) conjugated (25 tests)

**Clone:** 24-31

**Isotype:** Mouse IgG1

Specificity: The mouse monoclonal antibody 24-31 detects CD154 / CD40L (CD40-ligand), a

39 kDa cell surface type II glycoprotein expressed predominantly on activated

CD4+ lymphocytes.

Regulatory Status: RUO

Immunogen: human CD154 fusion protein

Species Reactivity: Human, Non-Human Primates

Preparation: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum

conditions. The conjugate is purified by size-exclusion chromatography and

adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using

10  $\mu$ l reagent / 100  $\mu$ l of whole blood or 10 $^{\circ}$  cells in a suspension.

The content of a vial (0.25 ml) is sufficient for 25 tests.

**Expiration:** See vial label

Lot Number: See vial label

Background: 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 DATA SHEET

## References:

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