



PB-306-T025

## Monoclonal Antibody to CD21 Pacific Blue™ conjugated (25 tests)

Clone: LT21

**Isotype:** Mouse IgG1

Specificity: The antibody LT21 reacts with CD21 (CR2), a 145 kDa transmembrane

glycoprotein (complement C3d receptor - C3dR) expressed on B lymphocytes, follicular dendritic cells, some epithelial cells and a subsets of T lymphocytes. It is

not expressed on immature B cells.

HLDA VI; WS Code B CD21.1

Regulatory Status: RUO

Immunogen: IM9 human B-lymphoblastoid cell line

**Species Reactivity:** Human, Porcine, Bovine, Canine (Dog)

**Preparation:** The purified antibody is conjugated with Pacific Blue™ 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 4

μl reagent / 100 μl of whole blood or 10<sup>6</sup> cells in a suspension.

The content of a vial (0.1 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

Background: CD21 (complement receptor 2, CR2) binds C3 complement fragments, especially

its breakdown fragments, which remain covalently attached to complement activating surfaces or antigen. CD21 has important roles in uptake and retention of immunocomplexes, survival of memory B cells and in development and maintenance of the humoral response to T-dependent antigens. CD21 also serves as a key receptor for Epstein-Barr virus binding and is involved in targeting prions to folicular dendritic cells and expediting neuroinvasion following peripheral exposure to prions. A soluble form of the CD21 (sCD21) is shed from the

lymphocyte surface and retains its ability to bind respective ligands.



## PRODUCT DATA SHEET

## References:

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\*Singh A, Blank M, Shoenfeld Y, Illges H: Antiphospholipid syndrome patients display reduced titers of soluble CD21 in their sera irrespective of circulating anti-beta2-glycoprotein-I autoantibodies. Rheumatol Int. 2008 Jan 3

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