

**30-2621: Anti-Human CD21 PerCP (Clone : LT21)**

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	LT21
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CR2
<b>Gene ID :</b>	1380
<b>Alternative Name :</b>	CR2, C3DR2, CVID7, SLEB9, complement C3d receptor 2
<b>Isotype :</b>	Mouse IgG1 kappa
<b>Immunogen Information :</b>	IM9 human B-lymphoblastoid cell line

**Description**

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 follicular 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.

**Specificity :** The antibody LT21 reacts with an extracellular epitope of 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.

**Product Info**

<b>Amount :</b>	100 tests
<b>Purification :</b>	The purified antibody is conjugated with PerCP under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Content :</b>	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
<b>Storage condition :</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

**Application Note**

**Flow cytometry:** The reagent is designed for analysis of human blood cells using 10  $\mu$ l reagent / 100  $\mu$ l of whole blood or  $10^6$  cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

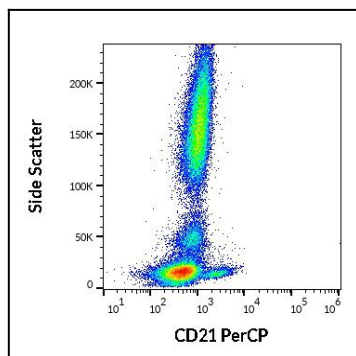


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD21 (LT21) PerCP antibody (10 µl reagent / 100 µl of peripheral whole blood).

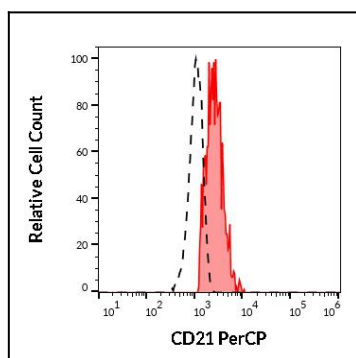


Figure 2 : Separation of human CD21 lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD21 (LT21) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).