

30-2886: Anti-Hu CD21 APC Mab (Clone : LT21)

Clonality :	Monoclonal
Clone Name :	LT21
Application :	FACS
Reactivity :	Pig,Dog,Human,Bovine
Conjugate :	APC
Gene :	CR2
Gene ID :	1380
Uniprot ID :	P20023
Alternative Name :	CR2, C3DR2, CVID7, SLEB9, complement C3d receptor 2
Isotype :	Mouse IgG1
Immunogen Information :	IM9 human B-lymphoblastoid cell line

Description

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.

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.

Product Info

Amount :	100 tests (T100)
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. Protect from prolonged exposure to 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.

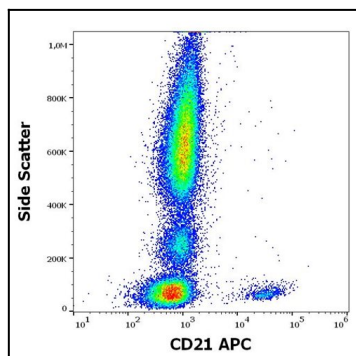


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD21 (LT21) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

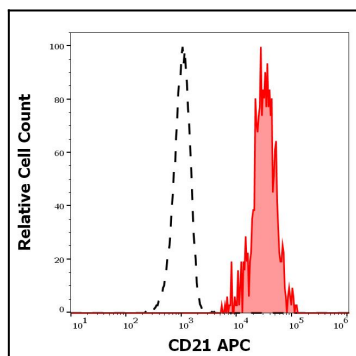


Figure 2: Separation of human CD21 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD21 (LT21) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).