Anti-Human CD21-152Sm

Catalog: 3152010B

Package size: 100 tests

Storage: Store at 4 °C. Do not freeze.

Cross-reactivity: Cynomolgus Monkey, Rhesus, Olive Baboon, Squirrel Monkey

Clone: BL13

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Technical Information

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended usage: The suggested use is 1 µL for up to 3 x 10^6 live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

Description

CD21, also known as CR2, is a 145 kDa transmembrane protein expressed primarily on B cells, where it is found in complex with other membrane proteins that promote normal humoral and cellular immune responses. CD21 expression is rapidly down-regulated during activation of B cells, and is also expressed on follicular dendritic cells and subsets of T cells. CD21 ligation four classes of ligands: complement component 3 proteolytic fragments iC3b, C3dg, and C3d; the Epstein-Barr virus glycoprotein gp350/220; the low-affinity IgE receptor (CD23); and the cytokine interferon alpha (IFNα). The primary role of CD21 is to function as a B cell co-receptor for antigen-mediated B cell activation through enhancement of signal transduction. This is achieved by co-ligation via C3d and surface IgM, where C3d is covalently linked to an antigen. IFNα has been shown to be a ligand of CD21, although the physiologic importance of this interaction is unknown.

References
