PRODUCT INFORMATION SHEET

Catalog number: 102301N0, 102301N1, 102301N2
Unit size: 25 tests, 100 tests, 500 tests

## Product Details

| Storage Conditions | $2-8^{\circ} \mathrm{C}$ with minimized light exposure. Do not freeze. |
| :--- | :--- |
| Expiration Date | 12 months upon receiving |
| Concentration | $0.1 \mathrm{mg} / \mathrm{mL}$ |
| Formulation | Phosphate-buffered saline (PBS, pH 7.2$), 0.09 \%$ sodium azide, $0.2 \%(\mathrm{w} / \mathrm{v}) \mathrm{BSA}$ |

## Antibody Properties

| Species Reactivity | Human |
| :--- | :--- |
| Class | Primary |
| Clonality | Monoclonal |
| Host | Mouse |
| Isotype | Mouse IgG1, k |
| Immunogen | CD23 (Fc\&RII, B6, BLAST-2, Leu-20, Low affinity IgE receptor) |
| Clone | EBVCS-5 |
| Conjugate | PE/AF610 |

## Biological Properties

Preparation Antibody purified by affinity chromatography and then conjugated with PE/AF610 under optimal conditions
Application Flow Cytometry (FACS)

## Spectral Properties

| Conjugate | PE/AF610 |
| :--- | :---: |
| Excitation Wavelength | 567 nm |
| Emission Wavelength | 627 nm |

## Applications

EBVCS-5 is an anti-human antibody that forms an immune complex with the CD23 antigen. CD23 (sometimes referred to as FceRII, BLAST-2 or B6) is a glycoprotein that is expressed on the surface of cells like platelets, granulocytes, T cells, dendritic cells and epithelial cells. CD23 is a component of important cellular pathways, for example, the cytokine-mediated signaling pathway and Notch signaling pathway. Furthermore, in certain organisms, it is a promoter of nitric-oxide synthase activity, acts to positively regulate killing of cells of other organism and positively regulates nitric-oxide synthase biosynthetic process. From a research standpoint, it is of biological interest due to its association with key macromolecules/ligands like CD11b, CD21, IgE and CD11c. CD23 is a fairly uncommon antibody target, with a little more than 5800 publications
in the last decade. Even still, CD23 is typically used in flow cytometry applications as a phenotypic marker for differentiation of cell types, specifically in the study of . This antibody was purified through affinity chromatography and conjugated to PE/AF610 (ex/em = 567/627 nm). It is compatible with the 561 nm laser and 615/20 nm bandpass filter (for example, as in the Agilent Technologies NovoCyte).

