biogems

Technical Data Sheet

Anti-Human CD19 PE-Cyanine7

Catalog Number :11231-77

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: SJ25C1

Format/Conjugate: PE-Cyanine7

Concentration: 5 uL (0.125 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The SJ25C1 monoclonal antibody reacts with a human 95 kDa transmembrane glycoprotein known as CD19, which is expressed by B lymphocytes during all the developmental stages, except for the terminally differentiated plasma cells. CD19 is also expressed on follicular dendritic cells, and seems to ensure the regulation of B lymphocytes proliferation. CD19, CD21, CD81, MHC class II, and Leu13 can bind together and form a complex which associates with the B cell receptor (BCR) on the surface of B lymphocytes and facilitates the signal transduction.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

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2. Korganow, A. S., Knapp, A. M., Nehme-Schuster, H., Soulas-Sprauel, P., Poindron, V., Pasquali, J. L., Martin, T. (2010). Peripheral B cell abnormalities in patients with systemic lupus erythematosus in quiescent phase: decreased memory B cells and membrane CD19 expression.;Journal of autoimmunity,;34(4), 426-434.

3. Wentink, M. W., Lambeck, A. J., van Zelm, M. C., Simons, E., van Dongen, J. J., IJspeert, H., ... van der Burg, M. (2015). CD21 and CD19 deficiency: two defects in the same complex leading to different disease modalities.;Clinical Immunology,;161(2), 120-127.

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