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Technical Data Sheet

Anti-Human CD20 PE

Catalog Number :02311-60

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

Product Information

Clone: 2H7

Format/Conjugate: PE

Concentration: 5 uL (0.06 ug)/test

Reactivity: Human

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG2b, 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 2H7 monoclonal antibody specifically reacts with human CD20, a 33-37kDA B-lymphocyte surface molecule. CD20 is an unglycosylated four-transmembrane phosphoprotein expressed by B cells in all stage of development, except the final plasma cells. It has been reported that the molecule is involved in B cell activation and has also been observed on a subset of circulating T lymphocytes.

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

1.Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.

2. Polyak, M. J., Deans, J. P. (2002). Alanine-170 and proline-172 are critical determinants for extracellular CD20 epitopes; heterogeneity in the fine specificity of CD20 monoclonal antibodies is defined by additional requirements imposed by both amino acid sequence and quaternary structure.;Blood,;99(9), 3256-3262.

3. Schlossman, S. F. (1995).;Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316