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Technical Data Sheet

Anti-Human CD16 APC

Catalog Number :08211-80

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

Product Information

Clone: CB16

Format/Conjugate: APC

Concentration: 5 uL (0.06 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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

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 CB16 monoclonal antibody specifically reacts with human CD16, the low affinity IgG receptor III (FC gamma RIII). CD16 is expressed on granulocytes, monocytes, macrophages, and NK cells and plays a role in NK activation and signal transduction. CD16 is expressed as either CD16a or CD16b. CD16a is a polypeptide-anchored transmembrane protein and CD16b is a glycosylphosphatidylinositol (GPI)-anchored protein that is expressed exclusively on neutrophils.

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.Deaglio, S., Zubiaur, M., Gregorini, A., Bottarel, F., Ausiello, C. M., Dianzani, U., ... Malavasi, F. (2002). Human CD38 and CD16 are functionally dependent and physically associated in natural killer cells.;Blood,;99(7), 2490-2498.

2. Peruzzi, G., Femnou, L., Gil-Krzewska, A., Borrego, F., Weck, J., Krzewski, K., Coligan, J. E. (2013). Membrane-type 6 matrix metalloproteinase regulates the activation-induced downmodulation of CD16 in human primary NK cells.;The Journal of Immunology,;191(4), 1883-1894.

3. Wirthmueller, U., Kurosaki, T., Murakami, M. S., Ravetch, J. V. (1992). Signal transduction by Fc gamma RIII (CD16) is mediated through the gamma chain.;The Journal of experimental medicine,;175(5), 1381-1390.