

Anti-Human CD16 SAFIRE Purified

Catalog Number :08211-25

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

Product Information

Clone: CB16

Format/Conjugate: SAFIRE Purified

Concentration: 1 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

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

Isotype: Mouse IgG1

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC, FA

Description

The CB15 monoclonal antibody specifically binds to human CD16, a low affinity Fc receptor. It is expressed on NK, neutrophils, macrophages, monocytes, and placental trophoblasts. CD16 is expressed in CD16a and CD16b forms. CD16a is a polypeptide anchored transmembrane protein and CD16b is a monomeric glycosylphosphatidylinositol (GPI)-anchored protein found in neutrophils. CD16 is reported to be involved in NK cell activation and signal transduction.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. 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.
2. 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.
3. Araya, N., Takahashi, K., Sato, T., Nakamura, T., Sawa, C., Hasegawa, D., ... Yamano, Y. (2011). Fucoidan therapy decreases the proviral load in patients with human T-lymphotropic virus type-1-associated neurological disease. *Antiviral therapy*,;16(1), 89.