

Anti-Human CD14 PE

Catalog Number :06211-60

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

Product Information

Clone: 61D3

Format/Conjugate: PE

Concentration: 5 μ L (0.5 μ g)/test

Reactivity: Human

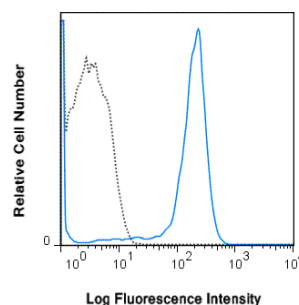
Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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



Human peripheral blood monocytes were stained with PE 61D3 with relevant isotype control in Gray

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, $\leq 0.09\%$ 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 61D3 monoclonal antibody specifically reacts with CD14, a cell surface anchored glycoprotein that is primarily expressed on monocytes, interfollicular macrophages, and a subset of dendritic cells. CD14 associates with MD-2 (LY-96) and TLR4 to form a receptor complex, which signals specifically in response to bacterial lipopolysaccharide (LPS) binding. The CD14/MD-2/TLR4 receptor complex signals via MyD88, TIRAP, and TRAF6, and ultimately activates NF-kappaB.

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 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

- 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.
- Leucocyte Typing VI: White Cell Differentiation Antigens: Proceedings of the Sixth International Workshop and Conference Held in Kobe, Japan, 10-14 November 1996. Garland Pub., 1998.
- Devitt, A., Moffatt, O. D., Raykundalia, C., Capra, J. D., Simmons, D. L., Gregory, C. D. (1998). Human CD14 mediates recognition and phagocytosis

