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Technical Data Sheet

Anti-Human CD14 FITC

Catalogue Number : 06211-50

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

Product Information

Clone: 61D3
Format/Conjugate: FITC
Concentration: 5 uL (1 ug)/test
Reactivity: Human
Laser: Blue (488nm)
Peak Emission: 520nm
Peak Excitation: 494nm
Filter: 530/30
Brightness (1=dim,5=brightest): 3
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 61D3 monoclonal antibody specifically reacts with CD14, a cell surface anchored glycoprotein that is primarily expressed on monocytes, inerfollicular 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 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.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.

2. 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.

3. Devitt, A., Moffatt, O. D., Raykundalia, C., Capra, J. D., Simmons, D. L., ; Gregory, C. D. (1998). Human CD14 mediates recognition and phagocytosis of apoptotic cells.;Nature,;392(6675), 505-509.

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