

## Anti-Human CD14 FITC

Catalog Number :06211-50

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

### Product Information

**Clone:** 61D3

**Format/Conjugate:** FITC

**Concentration:** 5  $\mu$ L (1  $\mu$ g)/test

**Reactivity:** Human

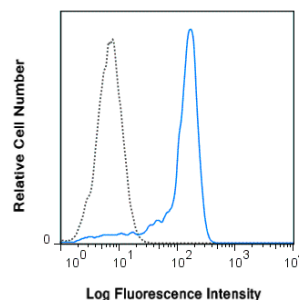
**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3



Human peripheral blood monocytes were stained with FITC61D3 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  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ 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

