

Anti-Human CD14 SAFIRE Purified

Catalog Number :06211-25

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

Product Information

Clone: 61D3

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, kappa

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

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

Applications: FC, FA

Description

The 61D3 monoclonal antibody specifically binds to human CD14, a co-receptor for bacterial lipopolysaccharides (LPS). It is expressed on some dendritic cells, monocytes, and neutrophils. CD14 is involved in the body's innate immune response and cytokine expression in monocytes and neutrophils.

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. Nunez, G., Ugolini, V., Capra, J. D., Stastny, P. (1982). Monoclonal Antibodies against Human Monocytes.;Scandinavian journal of immunology,16(6), 515-523
2. 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.
3. Henriksen, P. A., Devitt, A., Kotelevtsev, Y., Sallenave, J. M. (2004). Gene delivery of the elastase inhibitor elafin protects macrophages from neutrophil elastase-mediated impairment of apoptotic cell recognition.;FEBS letters,574(1), 80-84.