Product Data Sheet

Purified anti-human CD14

2109010 / 100 μg Catalog # /

Size: 2109005 / 25 µg

Clone: M5E2

Isotype: Mouse IgG2a, κ

Immunogen: Full-length human CD14 protein

Reactivity: Human

The antibody was purified by affinity **Preparation:**

chromatography.

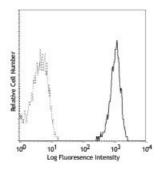
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

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Number:

Concentration: 0.5



Human peripheral blood

monocytes stained with M5E2 APC

Applications:

Applications: Immunofluorescence

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the

suggested use of this reagent is ≤2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal

performance for each application.

Application

Notes:

The M5E2 antibody inhibits monocyte activation and cytokine production induced by LPS. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections,

blocking of LPS stimulation4, and immunofluorescence microscopy5. Clone M5E2 is not recommended for immunohistochemical staining of formalin-fixed paraffin-embedded sections. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat.

No. 301810).

Application References: 1. McMichael A, et al. 1987. Leucocyte Typing III. Oxford University Press. New

York.

2. Knapp W, et al. Eds. 1989. Leucocyte Typing IV. Oxford University Press.

New York.

3. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press.

New York.

4. Power CP, et al. 2004. J. Immunol. 173:5229. (Block)

5. Williams KC, et al. 2001. J. Exp. Med. 193:905. (IF)

6. Iwamoto S, et al. 2007. J. Immunol. 179:1449. (FC) PubMed

7. Santer DM, et al. 2010. J. Immunol. 485:4739. PubMed

8. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

9. Zizzo G, et al. 2012. J. Immunol. 189:3508. PubMed

Description: CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane

expression of cytokines in monocytes and neutrophils.

glycoprotein also known as LPS receptor. CD14 is expressed at high levels on monocytes and macrophages, and at lower levels on granulocytes. Some dendritic cell populations such as interfollicular dendritic cells, reticular dendritic cells, and Langerhans cells have also been reported to express CD14. As a high-affinity receptor for LPS, CD14 is involved in the clearance of gramnegative pathogens, and in the upregulation of adhesion molecules and

Antigen 1. Stocks S, *et al.* 1990. *Biochem. J.* 268:275. **References:** 2. Wright S, *et al.* 1990. *Science* 249:1434.