

ANTI-HUMAN CD14

**Conjugated Mouse Monoclonal Antibodies Against Human CD14
Clone MfP9**

FITC Conjugate:	Catalog # 10406	100 tests
PE Conjugate:	Catalog # 10506	100 tests

SPECIFICITY:

Human CD14 is expressed on cells of the myelomonocytic lineage, including monocytes, macrophages and Langerhans cells. CD14 is expressed at lower levels on neutrophils, making CD14 useful marker to distinguish monocytes/macrophages from neutrophils. However, CD14 expression on neutrophils can be increased after exposure to certain cytokines or other stimuli. Dendritic cell differentiation is accompanied with loss of CD14 expression, making CD14 a useful marker to monitor monocyte to dendritic cell differentiation in culture.

CLONE: MoP9

ISOTYPE: IgG_{2b}κ (mouse)

FORMAT:

FITC-conjugate: 50 µg in 2 mL (25 µg/mL) in phosphate buffered saline (PBS) containing gelatin and 0.1% (w/v) sodium azide.

PE-conjugate : 100 µg in 2 mL (50 µg/mL) in PBS containing gelatin and 0.1% (w/v) sodium azide.

STABILITY AND STORAGE:

Store at 4°C. Do not freeze. Product is stable for at least 6 months.

APPLICATIONS AND DIRECTIONS FOR USE:

Flow cytometry:

Recommended amount per 1x10⁶ cells in a volume of 100 µL:

- FITC-conjugate (Cat No. 10406): 20 µL
- PE-conjugate (Cat No. 10506): 20 µL

Appropriate conditions should be established for each application.

Cell separation:

Positive selection of CD14⁺ cells with StemCell's reagents for immunomagnetic cell separation. Please contact us for more information.

**NOT FOR CLINICAL USE; INCLUDING IN VITRO DIAGNOSTIC USE, AND EX VIVO OR IN VIVO THERAPEUTIC USE IN CLINICAL TRIALS OR IN CLINICAL PRACTISE.
THIS REAGENT IS FOR RESEARCH ONLY**

Hazardous Ingredient: Sodium Azide. Avoid exposure to skin and eyes, ingestion and contact with heat, acids and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharging into plumbing.

REFERENCES:

1. Barclay AN, Brown MH, Law SKA, McKnight AJ, Tomlinson MG, van der Merwe PA, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD14. Academic Press, NY, p 169-170.
2. Hogg N, MacDonald S, Slusarenko M, Beverley PC; Monoclonal antibodies specific for human monocytes, granulocytes and endothelium. 1984. Immunology 53:753-767.
3. Kishimoto T et al. Eds.1998. Leukocyte Typing VI. White Cell Differentiation Antigens.. Garland Publishing Inc, New York NY, p1120-1121