

Monoclonal Antibody CD14

PN IM0643 – Purified – Freeze-dried – 0.2 mg – Clone RMO52

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

SPECIFICITY

The CD14 antigen is a glycosyl-phosphatidylinositol-linked single-chain surface membrane glycoprotein with a molecular weight of 53-55 kDa. CD14 antigen functions as a high affinity receptor for the complex of Lipopolysaccharide (LPS) and the LPS-Binding Protein (LBP) (1). It is found on cells of myelomonocytic lineage. CD14 antigen is strongly expressed on monocytes, macrophages, and weakly on neutrophils. It is also weakly expressed on B lymphocytes, but is absent from T lymphocytes, NK cells, red blood cells and platelets. It is found on Langerhans cells, follicular dendritic cells and histiocytes.

The RMO52 mAb has been assigned to the CD14 cluster of differentiation at the sixth International Workshop on Human Leucocyte Differentiation Antigens held in Kobe, Japan, in 1996 (2).

REAGENT

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0.2 mg

Clone	RMO52
Isotype	IgG2a κ , mouse
Immunogen	Isolated human monocytes
Hybridoma	SP2/0 x Balb/c spleen cells
Source	Ascites fluid
Purification	Protein A affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of CD14 positive cells by flow cytometry.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

1. Ziegler-Heitbrock, H.W., Ulevitch, R.J., "CD14: Cell surface receptor and differentiation marker", 1993, *Immunol Today*, 14, 121-125.
2. Goyert, S.M., Cohen, L., Gangloff, S.C., Ashmun, R., Haeffner-Cavaillon, N., "CD14 Workshop Panel report", 1997, *Leucocyte Typing VI, White Cell Differentiation Antigens*, Kishimoto, T., et al., Eds., Garland Publishing, Inc., 963-965.

PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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