**Fluorescence**

**Molar Ratio**

**Conjugation**

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

The CD14 antigen is a glycosylphosphatidylinositol-linked single-chain surface membrane glycoprotein with a molecular weight of 53-55 kDa. CD14 is found on cells of myelomonocytic lineage. It is strongly expressed on monocytes, macrophages, and weakly on neutrophils (1, 2). It is also present on pleural phagocytic cells and on reticular dendritic cells, on Langerhans cells, and histiocytes (3, 4). CD14 is not expressed on B lymphocytes, T lymphocytes, NK cells, red blood cells and platelets. The CD14 molecule functions as a high affinity receptor for the complex of lipopolysaccharide (LPS) and the LPS-binding protein (LBP). The RMO52 monoclonal antibody does not react with T or B lymphocytes (1, 2). It has been assigned to the CD14 cluster of differentiation during the 6th HLDA Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan, in 1996 (WS Code: MA62) (5).

**REAGENT CONTENTS**

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

**STATEMENTS OF WARNING**

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.

3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

4. Do not use antibody beyond the expiration date on the label.

5. Do not expose reagents to strong light during storage or incubation.

6. Avoid microbial contamination of reagents or incorrect results might occur.

7. Use good laboratory practices when handling this reagent.

**STORAGE CONDITIONS AND STABILITY**

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

**REAGENT PREPARATION**

No reconstitution is necessary. This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

**REAGENT CONTENTS**

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

**SPECFICITY**

The CD14 antigen is a glycosylphosphatidylinositol-linked single-chain surface membrane glycoprotein with a molecular weight of 53-55 kDa.

**SOURCE**

Ascites fluid

**PURIFICATION**

Affinity chromatography

**CONJUGATION**

Allophycocyanin-Alexa Fluor 750

**CLONE**

RMO52

**ISOYPE**

IgG2a, Mouse

**HYBRIDOMA**

SP2/0 x balb/c

**REAGENT PREPARATION**

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

**PRECAUTIONS**

Due to the tandem structure of the fluorochrome, APC-Alexa Fluor 750 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 750. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 750-conjugate.

**SELECTED RESEARCH REFERENCES**


**TRADEMARKS**

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