Monoclonal Antibody to CD14, FITC conjugated (CD14 FITC)
Cat.No. ED7028

1. Intended purpose
The reagent CD14 FITC permits identification and enumeration of cell populations expressing human CD14 antigen in whole blood using flow cytometry.

2. Test principle
This test is based on specific binding of monoclonal antibody to the antigenic determinant expressed on the surface of leukocytes. The monoclonal antibody is labeled with fluorochrome which is excited via laser beam from a flow cytometer during analysis. Subsequent emission of light from fluorochromes of each cell is collected and analyzed by a flow cytometer. The fluorescence intensity differences enable separation of cell subsets based on expression of analyzed antigen. Specific staining of blood cells is performed by incubation of blood samples with the reagent followed by a lysis of red blood cells. Afterwards, unaffected leukocytes are subjected to analysis by a flow cytometer.

3. Reagents provided
The reagent contains mouse monoclonal antibody against human CD14 antigen (clone MEM-15) which was purified by affinity chromatography and labeled with Fluorescein isothiocyanate (FITC). The labeled antibody is diluted at optimum concentration in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. The content of a vial (2 ml) is sufficient for 100 tests.

Product specification

<table>
<thead>
<tr>
<th>Content</th>
<th>100 tests, 2 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usage</td>
<td>20 µl per test</td>
</tr>
<tr>
<td>Specificity</td>
<td>Human CD14</td>
</tr>
<tr>
<td>Clone</td>
<td>MEM-15</td>
</tr>
<tr>
<td>Isotype</td>
<td>Mouse IgG1</td>
</tr>
<tr>
<td>Fluorochrome</td>
<td>FITC</td>
</tr>
<tr>
<td>I excitation</td>
<td>488 nm</td>
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<tr>
<td>Emission maximum</td>
<td>525 nm</td>
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</tbody>
</table>

4. Materials required but not provided
Test tubes for blood staining (e.g. 12 x 75 mm)
Commercial lysing solution
Phosphate buffered saline (PBS)
Isotype control antibody (mouse IgG1 FITC)

5. Equipment required
Automatic pipettes with disposable tips
Vortex mixer
Centrifuge
Flow cytometer with excitation laser 488 nm and proper filters

6. Storage and handling
Store the vial at 2-8 °C. Keep away from sunlight. Do not freeze. Do not aliquot. Expiration date is stated on a vial label and on outer packaging.

7. Warnings, precautions and limitations of use
- Intended for In Vitro Diagnostic use in laboratories outside USA and Canada. This CE-IVD kit is in conformity with the European Directive 98/79/EC.
- Do not use reagent after expiration date.
- Avoid reagents contamination.
- Do not use reagents after the expiration date.
- Do not freeze. Do not aliquot. Expiration date is stated on a vial label and on outer packaging.
- Intended for In Vitro Diagnostic use in laboratories outside USA and Canada. This CE-IVD kit is in conformity with the European Directive 98/79/EC.

10. Analytical performance

Specificity
The antibody MEM-15 reacts with CD14. A 53-55 KDa GPI (glycosylphosphatidylinositol) linked membrane glycoprotein expressed on monocytes, macrophages and weakly on granulocytes; it is expressed by most tissue macrophages. This antibody also reacts with soluble forms of CD14 found in serum and in the urine of some nephrotic patients. The monoclonal antibody MEM-15 is assigned to CD14 during the Human Leukocyte Differentiation Antigen workshop (HLDA3 WS Code: M 252).

11. Clinical performance
N/A

12. References
Leukocyte Typing V, Kishimoto T et al. (Eds.), Garland Publishing Inc. (1997).
Leukocyte Typing IV, Knapw W. et al. (Eds.), Oxford University Press (1989).

13. Manufacturer
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www.exbio.cz

14. Trademarks
N/A

15. Revision History
- Version 1, ED7028_IFU_v1
- Initial Release
- Version 2, ED7028_IFU_v2
- The address was changed: "Nad Safino II 341" to "Strelna 19".
- Version 3, ED7028_IFU_v3
- Precautions section was changed. "Intended for professional use only." - removed. "Intended for In Vitro Diagnostic use in laboratories outside USA and Canada. This CE-IVD kit is in conformity with the European In Vitro Diagnostic Medical Device Directive 98/79/EC." - added.
- Version 4, ED7028_IFU_v4
- Precautions section was changed - stabilizing solution added - added and "0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent" - removed.
- Version 5, ED7028_IFU_v5
- The company logo changed. IFU layout changed.
- "Keep away from sunlight." - added. "Blood must be stored at room temperature." - added. Postal code changed: 25250 Vestec"
Monoclonal Antibody to CD14, FITC conjugated (CD14 FITC)

100 tests | Cat.No. ED7028

Instructions for Use
Version: ED7028_IFU_v5_EN
Date of Issue: 24-02-2020

Symbols
- Catalogue number
- Batch code
- Use-by date
- Temperature limits
- Keep away from sunlight
- In vitro diagnostic medical device
- CE marking of conformity
- Consult Instructions for use
- Manufacturer

The product is intended for In Vitro Diagnostic Use. In vivo diagnostic or therapeutic applications are strictly forbidden. Products shall not be used for resale or transfer to third parties either as a stand-alone product or as a manufacture component of another product without written consent of EXBIO Praha, a.s. EXBIO Praha, a.s. will not be held responsible for patent infringement or any other violations of intellectual property rights that may occur with the use of the products. Orders for all products are accepted subject to the Term and Conditions available at www.exbio.cz. EXBIO, EXBIO Logo, and all other trademarks are property of EXBIO Praha, a.s.