

Anti-Human CD59 (MEM-43)



PE



59PE1-100T



100 test



RUO

1. PRODUCT DESCRIPTION

- **Clone:** MEM-43;
- **Isotype:** IgG1;
- **Tested application:** flow cytometry;
- **Immunogen:** The anti-CD59 monoclonal antibody derives from Thymocytes and T lymphocytes;
- **Species reactivity:** Human;
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃);
- **Recommended usage:** Immunostep's CD59, clone MEM-43 is a monoclonal antibody intended for the identification and enumeration of CD59 protein expressed on all hematopoietic cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10⁶ cells;
- **Presentation:** liquid;
- **Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification:** Affinity chromatography;
- **Other names:** IF-5Ag, HI9, HRF20, MACIF, M1RL, P-18, PROTECTIN;
- **Gene ID:** 966;
- **Molecular weight:** 18 - 20 kDa.

2. ANTIGEN DETAILS

Large description: the monoclonal antibody reacts with a PI-linked glycoprotein, a small GPI-anchored protein, found in all types of leukocytes including platelets. Antigen distribution is to be found across many hemopoietic and non-hemopoietic cells. CD59 inhibits formation of membrane attack complex (MAC), thus protecting cells from complement mediated lysis. Has a signaling role, as a GPI-anchored molecule, in T cell activation. CD59 is also an low-affinity ligand of human CD2 and causes T cell costimulation. It is thus the key regulator that preserves the autologous cells from terminal effector mechanism of the complement cascade. CD59 associates with C5b-8 complex and thereby counteracts appropriate formation of cytolytic pore within the plasma membrane.^(1,5)

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to www.immunostep.com technical support for more information.

5. REFERENCES

1. Horejsi V, Hilgert I, Kristofova H, Bazil V, Bukovsky A, Kulhankova J: Monoclonal antibodies against human leucocyte antigens. I. Antibodies against beta-2-microglobulin, immunoglobulin kappa light chains, HLA-DR-like antigens, T8 antigen, T1 antigen, a monocyte antigen, and a pan-leucocyte antigen. Folia Biol (Praha). 1986;32(1):12-25.
2. Robert Sutherland D, Keeney M, Illingworth A: Practical guidelines for the high-sensitivity detection and monitoring of paroxysmal nocturnal hemoglobinuria (PNH) clones by flow cytometry. Cytometry B Clin Cytom. 2012 Apr 12.
3. Dun MD et al. The Chaperonin Containing TCP1 Complex (CCT/TRiC) Is Involved in Mediating Sperm-Oocyte Interaction. J Biol Chem 286:36875-87 (2011). WB, ICC/IF.
4. Kolev MV et al. Upregulating CD59: a new strategy for protection of neurons from complement-mediated degeneration. Pharmacogenomics J 10:12-9 (2010). Flow Cyt ; Human.

6. EXPLANATION OF SYMBOLS



Fluorochrome



Product reference



Content for <n> analysis



Regulatory Status



Research Use Only



Manufacturer

7. MANUFACTURED BY:

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