

TECHNICAL DATA SHEET

CyFlow™ CD35 PE Anti-Hu; Clone E11

REF CH008703

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD35
Alternative Names	CR1, C3b/C4b-R
Clone	E11
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Acute monocytic leukemia cells and normal blood monocytes

Specificity

The mouse monoclonal antibody E11 recognizes CD35 antigen, a type I glycoprotein expressed on granulocytes, monocytes, B cells, follicular dendritic cells, erythrocytes, NK and T cell subsets, as well as e.g. on glomerular podocytes.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD35 (CR1; complement receptor 1) is a monomeric multiple modular cell surface glycoprotein which serves as receptor for C3b and C4b, the most important components of the complement system leading to clearance of foreign macromolecules. It is expressed mainly on the surface of granulocytes, monocytes, erythrocytes, B cells and follicular dendritic cells. Besides its role in complement cascade, CD35 is involved in blocking BCR-induced proliferation and the differentiation of B cells to plasmablasts and their Ig production.

References

- Hogg N, Ross GD, Jones DB, Slusarenko M, Walport MJ, Lachmann PJ: Identification of an anti-monocyte monoclonal antibody that is specific for membrane complement receptor type one (CR1). Eur J Immunol. 1984 Mar; 14(3):236-43. < PMID: 6368248 >
- McMichael AJ, Beverley PCL, Ceballos S, et al. (Eds): Leucocyte Typing III, White Cell Differentiation Antigens. Oxford University Press, Oxford. 1987; 1-1050. < NLM ID: 8913266 >
- Nielsen CH, Pedersen ML, Marquart HV, Proding WM, Leslie RG: The role of complement receptors type 1 (CR1, CD35 and 2 (CR2, CD21 in promoting C3 fragment deposition and membrane attack complex formation on normal peripheral human B cells. Eur J Immunol. 2002 May; 32(5):1359-67. < PMID: 11981823 >

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- Kremlitzka M, Polgár A, Fülöp L, Kiss E, Poór G, Erdei A: Complement receptor type 1 (CR1, CD35 is a potent inhibitor of B-cell functions in rheumatoid arthritis patients. Int Immunol. 2013 Jan; 25(1):25-33. < PMID: 22962438 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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