

1P-703-T025

Monoclonal Antibody to CD35 Phycoerythrin (PE) conjugated (25 tests)

Clone:	E11
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody E11 recognizes CD35 (CR1), 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. HLDA III; WS Code 204
Regulatory Status:	RUO
Immunogen:	Acute monocytic leukemia cells and normal blood monocytes
Species Reactivity:	Human, Non-Human Primates
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD35 (complement receptor 1, CR1) 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:	*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. <i>Int Immunol.</i> 2012 Sep 7. [Epub ahead of print] *Nielsen CH, Pedersen ML, Marquart HV, Prodinge 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. <i>Eur J Immunol.</i> 2002 May;32(5):1359-67. *Leukocyte Typing III., McMichael M.J. et al. (Eds.), Oxford University Press (1987); p.611. *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). <i>Eur J Immunol.</i> 1984 Mar;14(3):236-43.

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