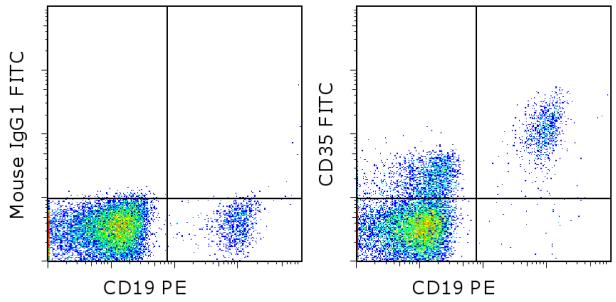
Anti-Human/Non-Human Primate CD35 FITC

Catalog Number: 11-0359
Also known as: Complement receptor 1, CR1, C3b/C4b receptor
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD19 APC (cat. 17-0199) and Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (left) or Anti-Human/Non-Human Primate CD35 FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human/Non-Human Primate CD35 FITC
REF **Catalog Number:** 11-0359
Clone: E11
Concentration: 5 uL (0.06 ug)/test
Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This E11 monoclonal antibody reacts with human and non-human primate CD35, which is also known as complement receptor 1 (CR1). CD35 is expressed on B cells, T cell subsets, follicular dendritic cells, macrophages, neutrophils, eosinophils, and erythrocytes. This cell surface protein is also present on non-immune cells such as glomerular podocytes and Langerhans cells. CD35 binds the complement components C3b and C4b, which are derived from cleavage of C3 and C4, respectively, in the classical and alternative complement pathways. In humans, CD35 has been implicated in a variety of roles, including complement activation, transporting C3 complexes on erythrocytes, phagocytosis of complement-bound neutrophils and macrophages, B cell proliferation, and opsonization. Reports also indicate that *Plasmodium falciparum*, the pathogen that causes malaria, invades host erythrocytes by binding CD35. Decreased expression of CD35 on erythrocytes has been associated with systemic lupus erythematosus (SLE), type I diabetes, and rheumatoid arthritis.

The E11 antibody has been reported to crossreact to capuchin monkey, chimpanzee, cynomologus monkey, olive baboon, and rhesus macaque.

Applications Reported

This E11 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This E11 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Glodek AM, Mirchev R, Golan DE, Khoory JA, Burns JM, Shevkoplyas SS, Nicholson-Weller A, Ghiran IC. Ligation of complement receptor 1 increases erythrocyte membrane deformability. Blood. 2010 Dec 23;116(26):6063-71.

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Tham WH, Wilson DW, Lopaticki S, Schmidt CQ, Tetteh-Quarcoo PB, Barlow PN, Richard D, Corbin JE, Beeson JG, Cowman AF. Complement receptor 1 is the host erythrocyte receptor for Plasmodium falciparum PfRh4 invasion ligand. Proc Natl Acad Sci U S A. 2010 Oct 5;107(40):17327-32. (**E11**, WB)

Khera R, Das N. Complement Receptor 1: disease associations and therapeutic implications. Mol Immunol. 2009 Feb;46(5):761-72.

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. (**E11**)

Related Products
11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)
17-0199 Anti-Human CD19 APC (HIB19)

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