

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD35 (CR1, C3bR)/R-PE *

mAb name/Clone: E11

Isotype: Mouse IgG1

Immunogen: Human monocytes

CATALOG#: 184-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated reagent per 5×10^5 -cell test)

INFORMATION: Human CD35 binds complement components C3b, C4b, and iC3b and is expressed on erythrocytes, B cells, monocytes, granulocytes and follicular dendritic cells and on subsets of thymocytes. CD35 on erythrocytes mediates clearance of immune complexes. Antibody E11 recognizes a complement receptor 1 (CD35) molecule of about 220 kd.

References: N. Hogg, et al, (1984) Eur J Immunol **14**: 236-243. Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 829-830. C.C. Delibrias, et al, (1994) Eur J Immunol **24**: 2784-2788. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 871-874.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze! Protect from light.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an $\text{OD}_{565}/\text{OD}_{280}$ ratio of 3.07.

PERFORMANCE: Five $\times 10^5$ cultured HPB-MLT human tumor cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-human CD35/R-PE at a 1:50 dilution (10 µg/ml). Cells were then washed three times, fixed and analyzed by FACS. A 53% subpopulation of the cells stained positive with a mean shift of 1.04 \log_{10} fluorescent units when compared to a Mouse IgG2a/PE negative control (Catalog # 281-050) at a similar concentration. Binding was blocked when cells were pre incubated 20 µl of unlabeled anti-CD35 antibody at 0.5 mg/ml (Cat#184-020).

***This Product is intended for Laboratory Research use only.**

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD35/PE to human HPB-MLT cells

