

**PERFORMANCE DATA SHEET**

1817

**Monoclonal anti-human CD46 (MCP)/R-PE\***

**mAb name/Clone: 169-1-E4.3**

**Isotype:** Mouse IgG2ak

**Immunogen:** Human PBL and EBV transformed LCL

**CATALOG#: 197-050**

**QUANTITY: 120 tests**

**VOLUME IN VIAL: 0.2 ml**

**WORKING DILUTION: 1:50** (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD46 is a cell surface glycoprotein expressed on almost all human cells except erythrocytes. CD46 is involved with regulation of complement activation and is also a measles virus receptor. Antibody 169-1-E4.3 recognizes the SCR1 epitope of CD46 (3).

**References:** 1.) R.L. Sparrow and I.F.C. McKenzie, (1983) Human Immunol 7: 1-15. 2.) D. Christiansen, et al, (1996) Eur J Immunol 26: 578-585. 3.) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 506-509.

**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<sub>3</sub> (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 **0.5mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.21.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human **HPB-MLT** cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD46/R-PE at a **1:50** dilution factor (20 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.02** log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD46 antibody (Catalog #197-020).

**\*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-CD46/R-PE to human HPB-MLT cells**

