

## PERFORMANCE DATA SHEET

1816

# Monoclonal anti-human CD46 (MCP)/FITC\*

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

**Isotype:** Mouse IgG2a $\kappa$

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

**CATALOG#:** 197-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6 $\mu$ l 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. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at 0.5 mg/ml with a Fluorescein/IgG molar ratio of 10.7 to 1.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human HPB-MLT cells per tube were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD46/FITC at a 1:50 dilution (10  $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.1 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog #281-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD46 antibody (Catalog #197-020).

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

### Binding of anti-CD46/FITC to human HPB-MLT tumor cells

