

PERFORMANCE DATA SHEET

2611

Monoclonal anti-human CD46 (MCP)/Biotin*

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

Isotype: Mouse IgG2aκ

Immunogen: Human PBL and EBV transformed LCL

CATALOG#: 197-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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.

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% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ cultured HPB-MLT human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD46/Biotin at 10 µg/ml. Cells were then washed twice and incubated 45 minutes with 2° reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.64 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog# 281-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD46 antibody (Catalog #197-020).

* Research Use Only. Not for use in Diagnostic procedures.

Binding of anti-CD46/Biotin to human HPB-MLT cells with SA/PE

