PERFORMANCE DATA SHEET 1817 Monoclonal anti-human CD40*

mAb name/Clone: **BE-1** *Isotype:* Mouse IgG1 *Immunogen:* Murine L cells transfectants expressing human CD40

CATALOG#: 189-020 QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD40 is a member of the tumor necrosis factor (TNF) receptor family and is present on all B cells except plasma cells. CD40 is also found on some epithelial cells, carcinomas and lymphoid dendritic cells. CD40 plays an important role in B cell activation and the interaction with its ligand CD154 (CD40 Ligand) is essential for isotype switching (1). The CD40-CD154 interaction appears to have a role in artherosclerosis and cardiovascular disorders (3,4,5). Antibody BE-1 recognizes the CD40 molecule of about 44 kd. Binding of cross linked BE-1 will partially activate B cells.

REFERENCES: 1) T.A. Foy, et al, (1996) Annu Rev Immunol 14: 591-617. **2)** M.E. Ozaki, et al, (1997) J Immunol 159: 214-221. **3)** F. Mach, et al, (1997) Proc Natl Acad Sci USA 94:1931-1936. **4)** U. Schonbeck, et al, (2000) *PNAS USA* 97: 7458-7463. **5)** U. Schonbeck, et al, (2001) *Circulation* 104: 2266-2268.

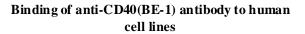
STORAGE CONDITIONS: Store at 2 - 5^oC. Freeze/Thawing is not recommended.

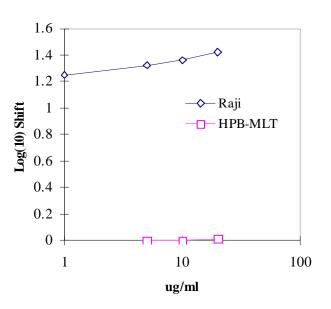
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10^5 cultured **Raji** cells per tube were incubated 45 minutes on ice with 80 µl of anti-CD40 antibody at **10 µg/ml**. Cells were washed twice and incubated with 2° reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.36** log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.





*This Product is intended for Laboratory Research use only.

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