

# PERFORMANCE DATA SHEET

1747

## Monoclonal anti-human CD86 (B7-2)/FITC\*

**mAb name/Clone:** BU63

**Isotype:** Mouse IgG1

**Immunogen:** ARH-77 (B-lymphoblastoid cell line)

**CATALOG#:** 307-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 200  $\mu$ l

**WORKING DILUTION:** 1:50 (or use 1.6  $\mu$ l of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** Human CD86 (B7-2) is a costimulating ligand for CD28 and CTLA-4. CD86 is expressed on activated B cells and blood monocytes (3). Antibody BU63 recognizes the CD86 molecule of 80 kd (3). Antibody BU63 blocks MLR and blocks binding of soluble CD152-muIg fusion protein to CD86.

**Reference:** 1. J. Aramburu, et al, (1990) J Immunol 144: 3238-3247. 2. J. Aramburu, et al, (1991) J Immunol 147: 714-721. 3. A. Moretta, et al, (1994) J Exp Med 180: 545-555. 4. C. Chang, et al, (1995) Eur J Immunol 25: 2433-2437. 5. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1437-1439.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. **Protect from light.**

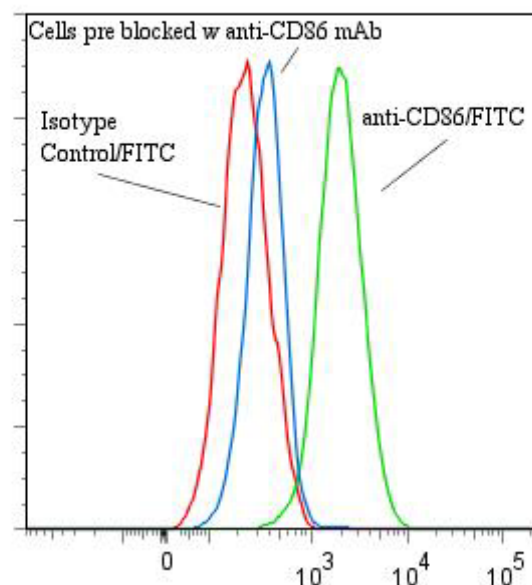
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**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:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 9.9.

**PERFORMANCE:** Five  $\times 10^5$  cultured **Raji** cells were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD86/FITC at a **1:50** dilution (5  $\mu$ g/ml). Cells were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.93** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD86 antibody (Catalog #307-020)

### Binding of anti-CD86/FITC to human Raji cells



**\*Research use only. Not for use in Diagnostic procedures.**