

## PERFORMANCE DATA SHEET

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

**mAb name/Clone:** BU63

**Isotype:** Mouse IgG1

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

**CATALOG#:** 307-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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 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% Na<sub>3</sub> (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 10<sup>5</sup> cultured **Raji** human tumor cells were washed and incubated 45 minutes with 80 µl of anti-CD86/Biotin at 5 µg/ml. Cells were then washed twice and incubated with 2<sup>o</sup> 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 2.1 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD86 antibody (Catalog #307-020).

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

**Binding of anti-CD86/Biotin + SA/PE to human Raji cells**

