

# PERFORMANCE DATA SHEET

2131

## Monoclonal anti-human CD80 (B7-1)/R-PE\* (IgG1 isotype)

**mAb name/Clone:** P1.H5.A1.A1

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Human CD80 (B7-1) Ig Fusion Protein

**CATALOG#:** 110-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

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

**INFORMATION:** Human CD80 (B7-1) is a costimulatory ligand for CD28 and CTLA-4. CD80 is expressed on activated B cells. Antibody P1.H5.A1.A1 recognizes the CD80 molecule and blocks binding of soluble CD152 Ig fusion protein to CD80.

**References:** C.B. Thompson, (1995) Cell **81**: 979-982. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 682-684.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **1.0 mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 2.81.

**PERFORMANCE:** Five  $\times 10^5$  cultured **Raji** cells were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD80/R-PE at a **1:50** dilution (20  $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.72 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD80 (P1.H5.A1.A1) antibody (Catalog #110-020).

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

**Binding of anti-CD80/PE to human Raji cells**

