

# PERFORMANCE DATA SHEET

3320

## Monoclonal anti-human CD18 ( $\beta 2$ Integrin)/R-PE \*

**mAb name/Clone:** IB4

**Isotype:** Mouse IgG2a

**Immunogen:** Human peripheral blood monocytes

**CATALOG#:** 167-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6 $\mu$ l of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD18 ( $\beta 2$  integrin) forms a heterodimer with either  $\alpha^L$ ,  $\alpha^M$ , or  $\alpha^X$  integrins (CD11a, b or c). CD11/CD18 heterodimeric molecules are involved with cell/cell and cell/extracellular adhesion in immune and inflammatory responses. Antibody IB4 recognizes the beta 2 integrin subunit (CD18) adhesion molecule of about 95 kd. Antibody IB4 blocks binding of ICAM-1 and ICAM-3 to LFA-1.

**References:** S.D. Wright et al, (1983) Proc Natl Acad Sci USA **80**: 5699-5703. R.C. Landis et al, (1994) J Cell Biol **126**: 529-537. M. Kaneko, et al, (1995) J Immunol **155**: 2631-2641. A. Mazzone & G. Ricevuti, (1995) Haematologica **80**: 161-175.

**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 **0.5 mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.4.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **HPB-MLT** human tumor cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD18/R-PE at a **1:50** dilution (10  $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.69log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050). Binding was blocked when pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD18 antibody (Catalog #167-020).

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

**Binding of anti-CD18/PE to human HPB-MLT cells**

