PERFORMANCE DATA SHEET
1743
Monoclonal **anti-human CD18***

> ***mAb name/Clone:*** **IB4**
> ***Isotype:*** Mouse IgG2a
> ***Immunogen:*** Human peripheral blood monocytes

CATALOG#: 167-020
QUANTITY: 100 μg   **CONCENTRATION: 1.0 mg/ml**

INFORMATION: Human CD18 (β2 integrin) forms a heterodimer with either α^L, α^M, or α^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 - 5ºC*. 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:_____
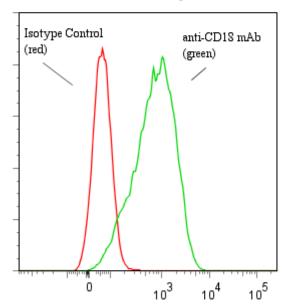
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

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 human **HPB-MLT** cells per tube were incubated 45 minutes on ice with 80 μl of anti-CD18 antibody at a concentration of **5 μg/ml**. Cells were washed twice and incubated with 2º 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 **1.52** $\log_{10}$ fluorescent units when compared to a Mouse IgG2a negative control (Catalog #281-010) at a similar concentration.

Binding of anti-CD18 mAb +GAM/FITC to human Raji cells

*This Product is intended for Laboratory Research use only.