## PERFORMANCE DATA SHEET 2825 Monoclonal anti-human CD18 Fab\*



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

## CATALOG#: 167-580 Fab monomer QUANTITY: 100 µg (Preservative Free)

## CONCENTRATION: 1.0 mg/ml

**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<sup>o</sup>C. Open under aseptic conditions.* 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. Product was sterile filtered and vialed under aseptic conditions. **No preservative added.** 

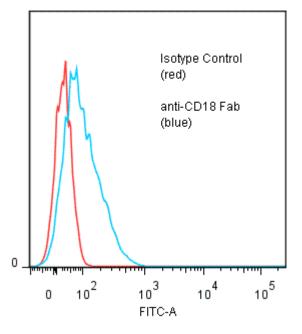
PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant.

Immunoglobulin was enzymaticly cleaved using Pepsin. Fab was separated from F(ab')2 and intact antibody and Fc fragments by Protein A and Size exclusion chromatography.

**PERFORMANCE:** Five x  $10^5$  cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD18 Fab at **10 µg/ml**. Cells were washed twice and incubated with  $2^{\circ}$  reagent Goat anti-Mouse/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.66** log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a Fab negative control (Catalog #281-580).

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

## Binding of anti-CD18 Fab +GAM/FITC to human HPB-MLT cells



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