

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 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 - 5°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 vialled under aseptic conditions. **No preservative added.**

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymatically 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 10⁵ 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^o 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 log₁₀ 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

