PERFORMANCE DATA SHEET

1816

Ancell

Monoclonal anti-human CD18 (β2 Integrin)/Biotin*

mAb name/Clone: **IB4** *Isotype:* Mouse IgG2a

Immunogen: Human polymorphonuclear leukocytes

CATALOG#: 167-030 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD18 (β 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 b2 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*. Freeze/thawing not recommended.

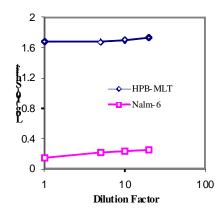
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Briefly, 5 x 10^5 cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 μl of product at **5 μg/ml**. Cells were washed twice and incubated with 2^0 reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.67** \log_{10} fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD18 antibody (Catalog #167-020).





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^{*} Research Use Only. Not for use in Diagnostic procedures.