

**PERFORMANCE DATA SHEET**

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**Monoclonal anti-human CD18 ( $\beta 2$  Integrin)/Biotin\*****mAb name/Clone:** IB4**Isotype:** Mouse IgG2a**Immunogen:** Human polymorphonuclear leukocytes**CATALOG#:** 167-030**QUANTITY:** 100  $\mu$ g**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°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% NaN<sub>3</sub> (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,  $5 \times 10^5$  cultured HPB-MLT cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of product at 10  $\mu$ g/ml. Cells were washed twice and incubated with 2<sup>o</sup> 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 1.87 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog # 281-030) at a similar concentration. Binding was blocked when cells were 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/Biotin +SA/PE to human HPB-MLT cells**