

**PERFORMANCE DATA SHEET**

3019

**Monoclonal anti-human CD41a (GP IIb)/Biotin\***

*mAb name/Clone:* 96.2C1

*Isotype:* Mouse IgG1

*Immunogen:* Human PBL

**CATALOG#: 190-030**

**QUANTITY: 100 µg**

**CONCENTRATION: 1.0 mg/ml**

**INFORMATION:** Human CD41 is a member of major platelet transmembrane glycoprotein complex (CD41/CD61) which mediates platelet aggregation and adhesion by serving as the receptor for fibrinogen and von Willebrand factor, fibronectin and vitronectin. Antibody 96.2C1 recognizes the CD41a molecule of about 140 kd (1).

**References:** 1)Leukocyte Typing III (A.J. McMichael, et al, eds.) Oxford University Press, Oxford, (1987) p. 744.  
2)Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 643-648.

**STORAGE CONDITIONS:** *Store at 2 - 5°C.* Freeze/thawing not recommended.

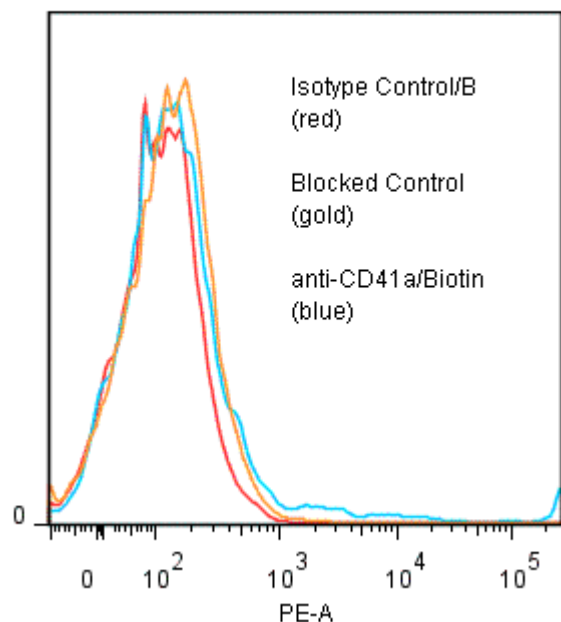
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**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:** Five x 10<sup>5</sup> ficoll prepared human peripheral blood mononuclear cells were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD41a antibody at 5 µg/ml. Cells were washed twice and incubated 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. A net **4.8% sub population** of cells stained positive with a mean shift of **2.29 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD41a antibody (Catalog #190-020).

**Binding of anti-CD41a/Biotin +SA/PE to human PBMC**



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