

**PERFORMANCE DATA SHEET**

1944

**Monoclonal anti-human CD32(Fc gamma RII)/R-PE\***

**mAb name/Clone:** 7.3

**Isotype:** Mouse IgG1κ

**Immunogen:** Human K562 tumor cells and L cells transfected with human Fc gamma RII

**CATALOG#:** 181-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD32 exists in at least six isoforms originating from three different genes (FcγRII A, B and C). The CD32 molecule is a low affinity receptor for immune complexed IgG and has signal-transducing capabilities involved with humoral and cell-mediated immune responses. Antibody 7.3 reacts with a domain 2 epitope or all CD32 isoforms. Intact and Fab<sub>2</sub> 7.3 antibody blocks immune complex binding.

**References:** Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 823-836.  
A. Aicher, et al, (2000) J Immunol 164: 4689-4696.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. Protect from light.

**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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 0.5 mg/ml with an A<sub>565</sub>/A<sub>280</sub> ratio of 2.91.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured Raji cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD32/R-PE at a 1:50 dilution factor (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.63 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog # 281-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD32 antibody (Catalog #181-020).

*\*Research use only. Not for use in Diagnostic procedures..*

**Binding of anti-CD32/PE to human Raji cells**

