

## Monoclonal anti-human CD21(CR2)/FITC\*

**mAb name/Clone:** BU33

**Isotype:** Mouse IgG1

**Immunogen:** Human HFB-1 cell line

**CATALOG#:** 170-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** Human CD21 is a receptor for complement fragments C3d, C3dg or ic3D and also EBV. CD21 is also a ligand for CD23 and plays a role in IgE synthesis. Antibody BU33 recognizes the CD21 molecule of about 145 kd. Antibody BU33 inhibits binding to CD23.

**References:** Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 516-523.

Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 535-538. J.Y. Bonnefoy, et al, (1995) Intl Archiv Allergy Immunol **107**: 40-42. A.D. Beaulieu, et al, (1995) Blood **86**: 2789-2798. H. Molina, et al, (1995) J Immunol **154**: 5426-5435.

**STORAGE CONDITIONS:** Store at 2 - 5°C. **Do not freeze! 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 6.1.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD21/FITC 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 **0.7** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD21 antibody (Catalog #170-020).

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

### Binding of anti-CD21/FITC to human HPB-MLT cells

