

PERFORMANCE DATA SHEET

2638

Monoclonal anti- human CD31(PECAM-1)/R-PE *

mAb name/Clone: 158-2B3

Isotype: Mouse IgG1

Immunogen: Stimulated human leukocytes

CATALOG#: 180-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD31 is an adhesion molecule expressed on platelets, endothelial cells, leukocytes and their bone marrow precursors. CD31 plays a role in homophilic adhesion and heterophilic transendothelial migration (3). Antibody 158-2B3 reacts with domain 1 of CD31 and blocks homophilic interaction and heterophilic transendothelial migration (1).

References: 1) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 362-372. 2) P.J. Newman, (1997) J Clin Invest **99**: 3-10. 3) K.L. Yong, et al, (1998) Blood **91**: 1196-1205.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze! Protect from light.

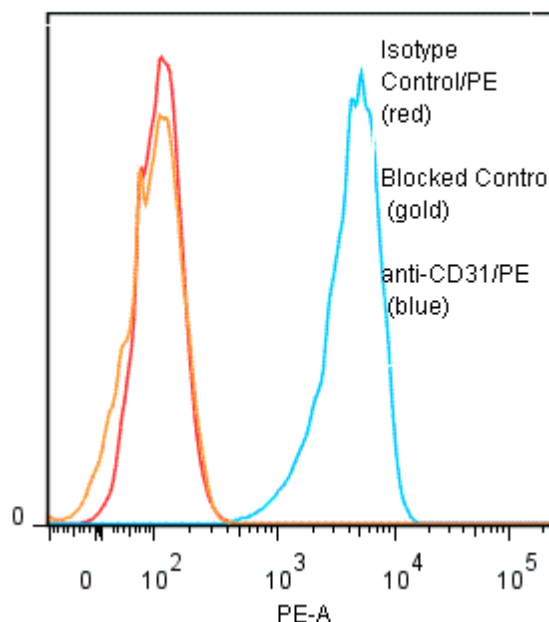
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% Na₃N (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 A₅₆₅/A₂₈₀ ratio of 3.2.

PERFORMANCE: Five x 10⁵ cultured Jurkat cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD31/R-PE at a 1:50 dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.59 log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD31 antibody (Catalog #180-020).

Binding of anti-CD31/PE to human Jurkat cells



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