

PERFORMANCE DATA SHEET

2809

Monoclonal anti-human CD244(2B4)/FITC*

mAb name/Clone: ANC244.8/ 8F7

Isotype: Mouse IgG1k

Immunogen: Recombinant soluble CD244

CATALOG#: 239-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

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

INFORMATION: CD244 (2B4, SLAMF4) is a 66 kD member of the CD2/SLAM related receptor family (SRR). It is expressed on NK (3), Tcell subsets, monocytes and eosinophils(4). It is expressed at high levels on Leukemia initiating cells, and plays a role in their proliferative potential (5). In mice there are two transcription variants, a long form and a short form of CD244 each of which have distinct signaling properties. In humans, only the long form is expressed. Decreased CD244 expression on monocytes of SLE patients correlated (negatively) with autoantibody titer(2). CD244 mediated function in immune response can vary greatly dependant on the context of its ligation.

Antibody ANC244.8 binds to recombinant CD244-muIg (cat #544-020) in EIA, and to cell surface CD244 on human PBL in FACS. ANC244.8 binds to a CD244 epitope that is distinct from the binding sites of clone ANC2B4/3B12 (cat #259-020). *It blocks binding of clone C1.7.*

References: 1) Boles KS, Mathew PA, et al. (1999) *Tissue Antigens* 54(1): 27-34. 2) Mak A, AM Fairhurst, et al. (2017) *Clinical Rheumatology* 37(3): 811-816. doi.org/10.1007/s10067-017-3698-2. 3) Vacca P, MC Mingarri, et al. (2006) *Blood* 108: 4078-4085. 4) Munitz A, Levi-Schaffer F, et al. (2005) *J Immunol* 174(1): 110-118. 5) Zhang F, Zheng J, et al. (2017) *Haematologica* Doi: 10.3324/haematol.2016.151555.

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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 8.7.

PERFORMANCE: Five $\times 10^5$ ficoll prepared PBMC were incubated 45 minutes on ice with 80 µl of anti-CD244 (clone ANC244.8/8F7) /FITC at a 1:50 dilution factor (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net 59% sub population of cells stained positive with a mean shift of 1.18 log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 ml of 0.5 mg/ml anti-CD244 antibody (Catalog #239-020).

* Research Use Only. Not for use in Diagnostic procedures.

Binding of anti-CD244(clone ANC244.8/8F7)/FITC to human PBL

