## PERFORMANCE DATA SHEET <sup>1915</sup> *Monoclonal* anti-human CD244(2B4)/R-PE\*



*mAb name/Clone:* ANC244.8/ 8F7 *Isotype:* Mouse IgG1k *Immunogen:* Recombinant soluble CD244

## CATALOG#: 239-050 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 105-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 Leuikemia 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 - $5^{o}C$ . 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:\_\_\_\_\_

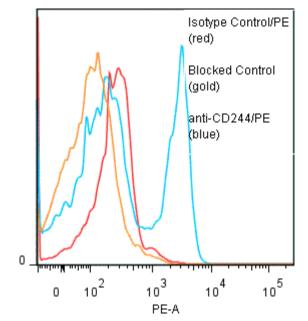
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**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 **500 \mug/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.01.

**PERFORMANCE:** Five x  $10^5$  ficoll prepared human **PBMC** were washed and pre incubated 10 m9inutes with 20ul of human IgG at a concentration of 300 ug/ml (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD244/R-PE at a dilution factor of **1:50** (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.34** log<sub>10</sub> 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-CD244 (clone ANC244.8/8F7) antibody (Catalog #239-020).

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

## Binding of anti-CD244/PE to human PBMC



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940