

**PERFORMANCE DATA SHEET**  
2021

**Monoclonal anti-human CD26 (dipeptidyl peptidase IV)/Biotin\***

**mAb name/Clone:** 202.36

**Isotype:** Mouse IgG2b $\kappa$

**Immunogen:** Human T cell clone

**CATALOG#:** 175-030

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD26 is a T cell activation antigen which can be associated with costimulation (1). The significance of the dipeptidyl peptidase IV activity remains unknown. Characterization of adenosine deaminase binding to CD26 suggests an important immunoregulatory role (2). CD26 is expressed at high levels on CD4+ Th17 T cells (3). Antibody 202.36 reacts with the type II membrane protein CD26.

**References:** 1.) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1105-1114. 2.) R.P. Dong, et al, (1996) J. Immunol 156: 1349-1355. 3.) Bengsch B, R Thimme, et al, (2012) J Immunol 188(11): 5438-5447.

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

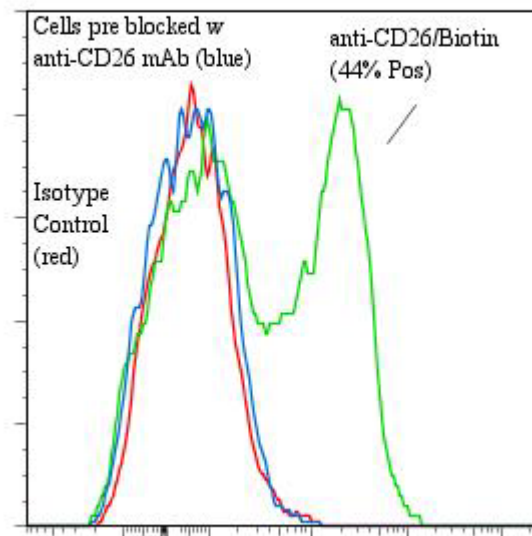
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Ficoll prepared human **peripheral blood leukocytes** were stimulated overnight in culture with 5  $\mu$ g/ml Phytohemagglutinin (PHA). Five x 10<sup>5</sup> cells per tube were washed and pre incubated ~5 minutes with 20  $\mu$ l of human IgG at 250  $\mu$ g/ml (to block non specific binding), after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD26/Biotin at 10  $\mu$ g/ml. Cells were then washed twice and incubated with 2<sup>o</sup> reagent Streptavidin/R-PE (Cat # 253-050), after which they were washed three times, fixed and analyzed by FACS. A net **44%** sub population of the cells stained positive with a mean shift of 1.8 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b/Biotin (Catalog #284-030) negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD26 antibody (Catalog #175-020).

**Binding of anti-CD26/Biotin +SA/PE to stimulated human PBL**



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**Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA**  
**Phone: Toll free 800-374-9523 or 612-439-0835 Fax: 612-439-1940**