

PERFORMANCE DATA SHEET

2723

Monoclonal anti-human CD26 (dipeptidyl peptidase IV)/R-PE*

mAb name/Clone: 202.36

Isotype: Mouse IgG2bκ

Immunogen: Human T cell clone

CATALOG#: 175-050

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 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. 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% NaN₃ (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 **1.0 mg/ml** with an OD₅₆₅/OD₂₈₀ ratio of 2.59.

PERFORMANCE: Ficoll prepared human peripheral blood mononuclear cells were harvested, after which 5 x 10⁵ per tube were washed and preincubated with 20 µl of human IgG at 250 µg/ml (to block non specific binding). They were then incubated 45 minutes on ice with 80 µl of anti-CD26/R-PE at a 1:50 dilution (20µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net 34% population of the cells stained positive with a mean shift of 0.87 log₁₀ fluorescent units when compared to a Mouse IgG2b/R-PE negative control (Catalog #284-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD26 antibody (Catalog #175-020).

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

Binding of anti-CD26/PE to human PBMC

