

# PERFORMANCE DATA SHEET

2209

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

**mAb name/Clone:** 202.36

**Isotype:** Mouse IgG2bk

**Immunogen:** Human T cell clone

**CATALOG#:** 175-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -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. 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% Na<sub>3</sub> (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/Antibody molar ratio of 12.

**PERFORMANCE:** Five x 10<sup>5</sup> Ficoll prepared human peripheral blood mononuclear cells (PBMC) per tube were washed and pre incubated ~5 minutes with 20 µl of human IgG at 250 µg/ml (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-CD26/FITC 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 0.33 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b/FITC negative control (Catalog #284-040) at a similar concentration. 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/FITC to human PBMC**

