

PERFORMANCE DATA SHEET

1818

Monoclonal anti-human CD137L (4-1BB Ligand)/R-PE*

mAb name/Clone: ANC5D6

Isotype: Mouse IgG2ak

Immunogen: Recombinant human CD137L

CATALOG#: 365-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

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

INFORMATION: Human CD137 Ligand is a type II transmembrane protein constitutively expressed by monocytes, B cells neuroblastoma cells (1), and some activated T cells. The interaction of CD137 (4-1BB) and CD137L can supply a costimulatory signal to T cells through CD137. This costimulus seems to be more effective for CD8+ effector T cells than for CD4+ helper T cells (3). The interaction can also effect a reverse signal, inducing monocyte activation (2), or T cell inactivation and programmed death (4) through CD137L.

Anti-CD137L antibody binds to CD137L present on Raji and U-937 cells, and also binds to recombinant CD137L-muCD8 in EIA. This antibody does not block the interaction between CD137 and CD137L.

References: 1) M.R. Alderson, et al, (1994) *Eur J Immunol* **24**: 2219-2227. 2) J. Langstein, et al, (1998) *J Immunol* **160**: 2488-2494. 3) V.Y. Taraban, et al, (2002) *Eur J Immunol*. **32**: 3617-3627. 4) H. Schwartz, et al,

(1996) *Blood* **87**: 2839. 5) G. Zhu, et al, (2001) *J Immunol* **167**: 2671-6.

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 **0.5 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 2.9.

PERFORMANCE: Five x 10⁵ cultured human Raji cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD137L/R-PE at a 1:50 dilution factor (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.54** log₁₀ fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD137L antibody (Catalog #365-020).

**This Product is intended for Laboratory Research use only.*

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD137L/PE to human Raji cells

