

**PERFORMANCE DATA SHEET**

2410

***Monoclonal anti-human CD137L (4-1BB Ligand)/Biotin\****

***mAb name/Clone:*** ANC5D6

***Isotype:*** Mouse IgG2ak

***Immunogen:*** Recombinant human CD137L

**CATALOG#:** 365-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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 clone ANC5D6 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.* 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% NaN<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:** Five x 10<sup>5</sup> cultured **Raji** cells were incubated 45 minutes on ice with 80 µl of anti-CD137L/Biotin at **10 µg/ml**. Cells were washed twice and incubated with 2° reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.44 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030) 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).

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

**Binding of anti-CD137L/Biotin +SA/PE to human Raji cells**

