

# PERFORMANCE DATA SHEET

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## Monoclonal anti-human CD137 L (4-1BB Ligand)\*

**mAb name/Clone:** ANC5D6

**Isotype:** Murine IgG2ak

**Immunogen:** Recombinant human CD137L

**CATALOG#:** 365-820 (Preservative Free)

**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 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. *Open under aseptic conditions.* Freeze/Thawing is not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 µm filtered and viald under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** human tumor cells were incubated 45 minutes on ice with 80 µl of anti-CD137L antibody at 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.29 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a negative control (Catalog #281-010).

*\*Research use only. Not for use in Diagnostic procedures.*

**Binding of anti-CD137L antibody + GAM/FITC to human Raji cells**

