

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD252 (CD134L, OX40L)/Biotin*

mAb name/Clone: ANC10G1

Isotype: Mouse IgG1 κ

Immunogen: Human HUVEC and Recombinant soluble human CD134L

CATALOG#: 400-030

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD134L (OX-40 Ligand) is a type II membrane protein with homology to TNF which is expressed on activated B cells and activated endothelial cells. CD134L binds to CD134 present on activated T cells, providing a costimulatory signal (1). This pathway seems to be more effective for costimulation of CD4⁺ helper T cells than for CD8⁺ effector T cells (4). Blockade of this interaction in mouse abrogated immunological effects in several models of inflammation and rejection (5,6,7,8). Antibody from clone ANC10G1 binds to CD134L on the cell surface of HUVEC in Flow cytometry, and blocks binding of recombinant CD134-muIg.

References: 1) W. R. Godfrey, et al, (1994) *J Exp Med* 180: 757-763. 2) L.M. Higgins, et al, (1999) *J Immunol* 162: 486-493. 3) A.D. Weinberg, et al, (1999) *J Immunol* 162: 1818-1826. 4) V.Y. Taraban, et al, (2002) *Eur J. Immunol.* 32: 3617-3627. 5) V. Malmstrom, et al, (2001) *J Immunol* 166: 6972. 6) C. Nohara, et al, (2001) *J Immunol* 166: 2108-2115. 7) X. Yuan, et al, (2003) *J Immunol* 170: 2949-2955. 8) L. Tian, et al, (2002) *Transplantation* 74(1): 133-138.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/thawing 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% NaN₃ (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: Cultured human umbilical cord vein endothelial cells (HUVEC) were harvested by trypsinization, after which they were washed and incubated 45 minutes on ice with 80 μ l of anti-CD252/Biotin at 10 μ g/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.21 log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated with 20 μ l of 0.5mg/ml anti-CD252 mAb (cat #400-020).

****Research use only. Not for use in Diagnostic Procedures**

Binding of anti-CD252/Biotin + SA/PE to HUVEC

