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## Human CD134(OX40)-muIg Fusion Protein\*

CATALOG#: 513-820 QUANTITY: 25 μg

## CONCENTRATION: 0.5 mg/ml

*Molecular Structure:* A soluble molecule consisting of the extracellular (177 aa) domain of human CD134 fused to the murine IgG2a hinge + Fc (233 aa). Predicted monomeric non glycosylated weight is 45.6 kd . Fusion construct is dimeric and runs at about **105 kd** in non reduced SDS-PAGE.

Transfectant Cell Line: CHO

**INFORMATION:** Human CD134 (OX40) (ACT35) is an activation-associated antigen which is predominantly expressed on activated CD4 positive cells. CD134 antigen is a member of the tumor necrosis factor (TNF) receptor family of molecules and may be involved with regulating T cell-dependent B cell proliferation and differentiation (2). The CD134 costimulatory pathway seems to be more effective for costimulation of CD4+ helper T cells than for CD8+ effector T cells (5). Blockade of this interaction in mouse abrogated immunological effects in several models of immflamation and rejection (6,7,8,9). CD134-mulg fusion protein binds to CD134L on Human Umbilical Cord Endothelial Cells (HUVEC).

REFERENCES: 1) U. Latza, et al, (1994) Eur J Immunol 24: 677-683. 2) E. Stuber, et al, (1995) Immunity 2: 507-521.

**3**) Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 464-465. **4**) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1157-1160. **5**) V.Y. Taraban, et al, (2002) *Eur J. Immunol.* 32: 3617-3627. **6**) V. Malmstrom, et al, (2001) *J Immunol* 166: 6972. **7**) C. Nohara, et al, (2001) *J Immunol* 166: 2108-2115. **8**) X. Yuan, et al, (2003) *J Immunol* 170: 2949-2955. **9**) L. Tian, et al, (2002) *Transplantation* 74(1): 133-138.

STORAGE CONDITIONS: Store at 2 - 5ºC. Open under aseptic conditions. 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:\_\_\_\_\_\_

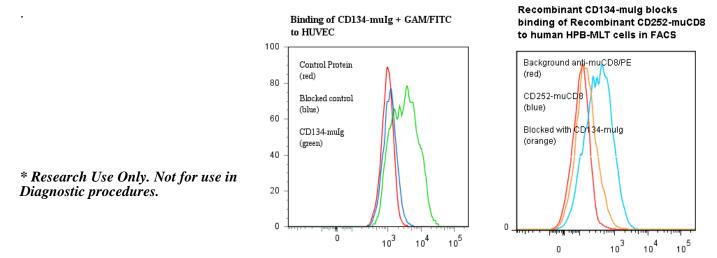
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**PRODUCTION:** Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using size exclusion chromatography. Product was 0.2µ sterile filtered and vialed under aseptic conditions.

## **PERFORMANCE:**

**Indirect binding**: CD134-muIg fusion protein bound to cell surface CD252 on HUVEC dected with GAM/FITC (cat# 232-040). Cells stained positive with a mean shift of **0.62** log10 fluorescent units.

**Blocking counter ligand**: Pre incubation of recombinant soluble CD252(OX40L)-muCD8 (cat# 512-020) with a 10-fold excess of CD134-muIg blocked binding to human HPB-MLT cells dectected by anti-murine CD8/PE (catalog #260-050).



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