PERFORMANCE DATA SHEET
2418

For maximal recovery of contents please quick spin vial before opening

Human CD137L-muCD8/Biotin *Fusion Protein**

CATALOG#: 503-030
QUANTITY: 25 ug **CONCENTRATION: 0.40 mg/ml**

Molecular Structure: A soluble fusion protein consisting of the extracellular domain (184aa) of human CD137 Ligand fused to the extracellular domain (167aa) of murine CD8 alpha.
Transfectant Cell Line: CHO

INFORMATION: Human CD137 Ligand is a type II transmembrane protein constitutively expressed by monocytes, B cells and neuroblastoma cells (1). Binding of CD137 (4-1BB) to CD137L induces monocyte activation (2). Human CD137L-muCD8 binds to CD137 on human cells and is blocked by CD137-huIg fusion protein.
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.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. 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:_____

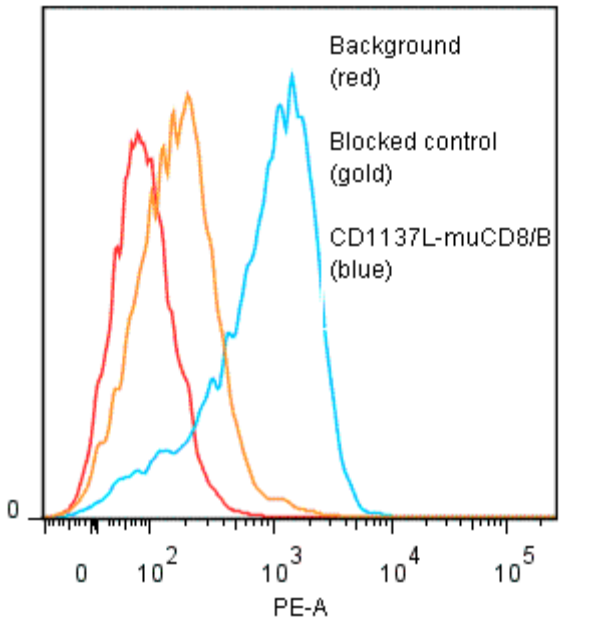
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate by desalting column.

PERFORMANCE: Cultured human **CEM** cells were stimulated 1 day in the presence of 10 ng/ml PMA and 1 mM Ionomycin. Five x 10^5 cells per tube were washed and incubated 45 minutes on ice with 80 µl of CD137L-muCD8/Biotin at a concentration of **10 µg/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 **1.04** $\log_{10}$ fluorescent units when compared to a buffer control. Binding was blocked when reagent was pre incubated 30 minutes with a 10-fold excess of CD137-huIg (Catalog #502-020).

Research use only. Not for use in Diagnostic procedures.

Binding of CD137L-muCD8/Biotin +SA/PE to stimulated human CEM cells



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