

CD278 protein

CD278(ICOS)-mulg-Biotin

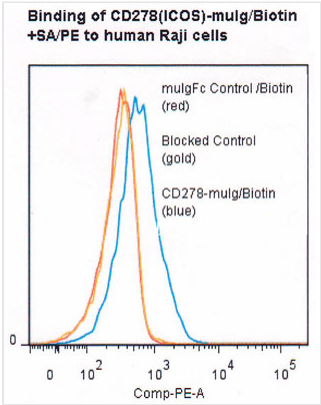
CATALOG # AAA78190	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD278; CD278(ICOS)-mulg-Biotin; Human CD278(ICOS)-mulg/Biotin Fusion Protein; CD278 protein

PRODUCT SPECIFICATIONS

Reactivity	Human
Form/Format	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).
Concentration	0.5 mg/ml (varies by lot)
Applicable Applications for CD278 protein	ELISA, FCM/FACS (Flow Cytometry)
Molecular Structure	A soluble molecule consisting of the extracellular (121aa) domain of mature human ICOS fused to the murine IgG2a Fc (232 aa). Predicted monomeric weight is 42.8 kd (amino acid composition only).
Transfectant Cell Line	CHO
Performance	CD278(ICOS)-mulg/Biotin was tested for its ability to bind to cell surface CD275(ICOSL) in FACS. Five x 10 ⁵ cultured Raji human tumor cells were washed and incubated 45 minutes on ice with 80 ul 1 of ICOS-mulg/Biotin at a concentration of 5)Ug/ml. Cells were washed twice and incubated with 2° reagent Streptavidin/R-Phycoerythrin , after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.39 log 10 fluorescent units when compared to a recombinant mulgFc Control Protein/Biotin negative control . Binding was blocked when reagent was pre incubated 10 minutes with a 10 fold excess of CD275(GL50,ICOSL)-mulg fusion protein .
Conjugation	Biotin
Production	Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using size exclusion chromatography.), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.
Preparation and Storage	Store at 2 - 5°C. Freeze/Thawing is not recommended.



Application Data

ADDITIONAL INFORMATION

Related Product Information for CD278 protein	Information: The inducible costimulator (ICOS, T cell activation molecule H4) is similar to human CD28 (24% homology), and plays an analogous role in the T cell activation process. Each secondary signal from CD28 or ICOS results in a discrete cytokine secretion profile displayed by the activated T cell.1 Both activation processes are effectively down regulated by CD152 (CTLA-4) engagement.2 Human GL50 is a member of the B7 family sharing ~20% homology with CD80 (B7-1) and CD86 (B7-2), and has been shown to be a ligand for ICOS.3 ICOS-mulg recombinant protein binds to recombinant GL50-mulg in EIA.
References	Beier, K.C., R.A. KroczeK, et al. 2000, Eur J Immunol. 30(12):3707-3717. 2 Riley, J.L., C.H. June, et al. 2001, J. Immunol. 166: 4943-4948. 3 Ling, V., M. Collins, et al. 2000, J. Immunol. 164: 1653-1657. 4 Ling, V., M. Collins, et al. 2001, J. Immunol. 166: 7300-7308. 5 A.J. McAdam, et al, (2000) J Immunol 165: 5035-5040.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.