PERFORMANCE DATA SHEET
1822

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Human CD27-muIg Fusion Protein*

CATALOG#: 543-820 (Preservative-free)
QUANTITY: 25 µg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble molecule consisting of murine CD8 alpha signal peptide residual amino acids and linker: (1)**kpqapelrgs**(10) A CD70-reactive n-terminal section of the mature extracellular domain of human CD27:
(11)**kscperhywaqgklccqmcepgtflvkdcdqhrkaaqcdpcipgvsfspdhhtrphcescrhcnsgllvrnctitanaecacrngwqcrdkectecdplpnps** (113)
linker (114)**gt**(115)
murine IgG2a Fc + hinge regions: (116)
eprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnvevhtaqtqthredynstlrvvsalpiqhqdwmsgkefkckvnnkdlpapier tiskpkgsvrapqvyvlpppeeemtkkqvtltcmvtdfmpediyvewtnngktelnykntepvldsdgsyfmysklrvekknwvernsyscsvvheglhnhhttksfsrtpgk (348)
The molecule is dimeric with a predicted monomeric non glycosylated molecular weight of 39.3 kd.

Transfectant Cell Line: CHO

INFORMATION: Human CD27 is a lymphocyte specific member of the tumor necrosis factor receptor family (TNFRSF7) and is found primarily on peripheral blood T cells and on a subpopulation of B cells and NK cells. The ligand for CD27 is CD70, which is a member of the TNF ligand superfamily(TNFSF7). The CD27-CD70 interaction plays an important role in T cell activation.
Recombinant soluble CD27-muIg binds to cell surface CD70 on Raji cells in FACS, and is reactive with recombinant CD70-muCD8 (cat #537-020), and anti-CD27 mAb clone M-T271 (cat #176-020).

References: 1) Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 350-352. 2) K. Agematsu, et al.(1994) J Immunol **153**(4): 1421-1429. 3) R.Q. Hintzen, et al, (1994) Immunol Today **15**: 307-311. 4) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 356-360, 435-437. 5) K. Agematsu, et al, (1995) J Immunol **154**: 3627-3635.

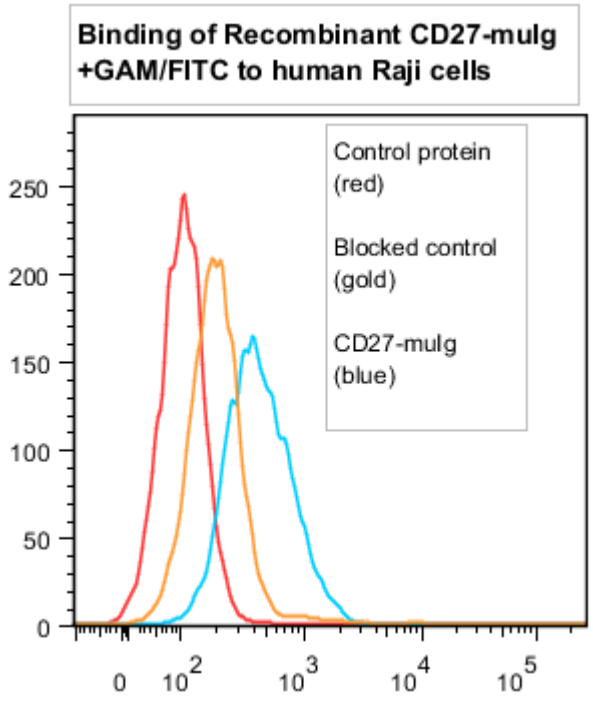
STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. Freeze/Thawing is not recommended.

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. Product was 0.1 µm filtered and vialed under aseptic conditions.

PRODUCTION: Human CD27-muIg fusion protein was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants.

PERFORMANCE: Five x 10^5 cultured human **Raji** cells were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of CD27-muIg **20 µg/ml**. Cells were washed twice and incubated with 2^{o} 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 **0.4** $\log_{10}$ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration. Binding was partially blocked when reagent was pre incubated with a 2.5-fold excess (mg/mg) of recombinant soluble CD70-muCD8 (cat #537-020).



****This Product is intended for Laboratory Research use only.***

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