PERFORMANCE DATA SHEET

2407



Human CD152(CTLA-4)-muIg/R-PE Fusion Protein* (also binds to mouse CD80/CD86)

CATALOG#: 501-050

QUANTITY: 50 tests VOLUME IN VIAL: 200 μl WORKING DILUTION: 1:20 (or use 4 ul of concentrated stock per 5 x 10⁵-cell test)

Molecular Structure: A soluble 110 kd dimeric fusion protein consisting of the extracellular (125aa) domain of human

CD152 (CTLA-4) fused to murine IgG2a Fc

Transfectant Cell Line: BHK

INFORMATION: Immune response mediated by T cells can be characterized to functionally proceed as follows: antigen recognition by the T cell receptor, activation through costimulation, effector activities to eliminate antigen and finally down regulation. Human CD152 is a cell surface glycoprotein expressed at low levels on activated T cells. CD152 is a high affinity receptor for the costimulatory molecules CD80 (B7-1) and CD86 (B7-2) and appears to function as a negative regulator of T cell activation. Therefore, CD152 may be an important player in down regulating T cell mediated immune responses. The CD152 Ig fusion protein has biological activity and binds with high affinity to human or mouse CD80 (B7-1) and CD86 (B7-2). CD152 Ig will block the binding of anti-CD80 (B7-1) and anti-CD86 (B7-2) monoclonal antibodies.

References: T. Lindsten, et al, (1993) J Immunol 151: 3489-3499. T.L. Walunas, et al, (1994) Immunity 1: 405-413. N.J. Karandikar, et al, (1996) J Exp Med 184: 783-788. A.H. Cross, et al, (1995) J Clin Invest 95: 2783-2789. P.A. Morton, et al, (1996) J Immunol 156: 1047-1054. Martin K. Oaks and Karen M. Hallett, (2000) J Immunol 164: 5015-5018.

S.J. Fass, et al, (2000) J Immunol 164: 6340-6348.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/Thawing is not recommended. **Protect from light**.

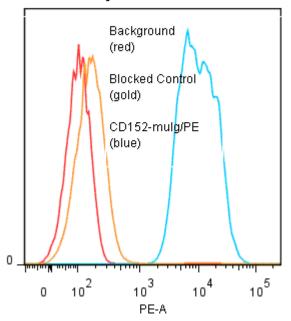
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:______

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative)

PRODUCTION: Human CD152-muIg fusion protein from tissue culture supernatant of BHK transfectants was Protein A purified to >95% by SDS-PAGE (<1% bovine immunoglobulin), and conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated fusion protein was removed using size exclusion chromatography. CD152-muIg/R-PE conjugate is at **0.2 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 3.97.

PERFORMANCE: Five x 10^5 cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 μ l of CD152-muIg/R-PE at a dilution factor of **1:20** (10 μ g/ml). Cells were washed three times, fixed and analyzed using by FACS . The cells stained positive with a mean shift of **2.05** \log_{10} fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog # 281-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml un conjugated CD152-muIg (cat #501-020).

Binding of recombinant CD152-mulg/PE to human Raji cells



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^{*} Research Use Only. Not for use in Diagnostic procedures.