PERFORMANCE DATA SHEET
1819

Human CD86-muIg *Fusion Protein**

For maximal recovery of contents please quick spin vial before opening

CATALOG#: 509-820 (Preservative-free)
QUANTITY: 25 μg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble fusion protein consisting of the extracellular (224aa) domain of human CD86 fused to murine IgG2a Fc (232aa). Predicted monomeric molecular weight 52.2 kd.

Transfectant Cell Line: CHO

INFORMATION: Human CD86 (B7-2) is a costimulating ligand for CD28 and CTLA-4. CD86 is expressed on activated B cells and blood monocytes(3).
References: **1.** C. Caux, et al, (1994) J Exp Med **180***:* 1841-1847. **2.** C.B. Thompson, (1995) Cell **81**: 979-982. **3.** Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 703-705.
4. D. Mauri, et al, (1995) J Immunol **155**: 118-127.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C*. 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. Product was 0.1 μm filtered and vialed under aseptic conditions.

PRODUCTION: Fusion protein was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants. Purity was >95% by SDS-PAGE with less than 1% Bovine Immunoglobulin. Product was 0.2 μm filtered and vialed under aseptic conditions.

PERFORMANCE: CD86-muIg was reactive in an Enzyme Immuno Assay utilizing a Goat anti-Mouse Ig coated plate for capture and either CD152-muIg/Biotin recombinant protein (Catalog #501-030) or anti-CD86/Biotin (Catalog #307-030) followed by Streptavidin/HRP and TMB/H_2O_2 substrate chromagen for detection.

CD86-muIg blocked binding of CD152-muIg to CD86 on Raji cells. Five x 10^5 Raji cells per tube were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD80 mAb (Catalog #110-020) so that only CD86 binding would be apparent. They were then incubated 45 minutes on ice with 80 μl of CD152-muIg/R-PE (Catalog# 501-050) at a concentration of **0.2 μg/ml**, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.83** $\log_{10}$ fluorescent units when compared to a Mouse IgG2a negative control (Catalog #281-010) at a similar concentration. **Binding was 60% blocked** when the CD152-muIg/R-PE reagent was pre incubated with **50 μg/ml** of CD86-muIg.

**** Research Use Only. Not for use in Diagnostic procedures.***

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