PERFORMANCE DATA SHEET
1819

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Human CD86-muIg/Biotin *Fusion Protein**

CATALOG#: 509-030
QUANTITY: 25 mg **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***. 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, 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 using a desalting column.

PERFORMANCE: CD86-muIg/Biotin was highly reactive at **5 ng/ml** in an Enzyme Immuno Assay utilizing immobilized anti-CD86 antibody (Catalog #307-020) for capture, followed by Streptavidin/HRP and TMB/H_2O_2 substrate chromagen for detection. It was also active at 50-100 ng/ml in a similar EIA utilizing immobilized recombinant CD152-muIg (Cat #501-020) for capture.

Purified CD86-muIg blocked binding of CD152-muIg to CD86 on Raji cells in FACS. Five x 10^5 Raji cell 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 isotype control (Catalog #281-030) 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.

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

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