

## PERFORMANCE DATA SHEET

1818

# Human CD86-muIg *Fusion Protein*\*

For maximal recovery of contents  
please quick spin vial before opening

**CATALOG#:** 509-020

**QUANTITY:** 25 µg

**CONCENTRATION:** 0.5 mg/ml

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

**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°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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Recombinant protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography.

**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<sub>2</sub>O<sub>2</sub> substrate chromagen for detection.

CD86-muIg blocked binding of CD152-muIg to CD86 on Raji cells. Five x 10<sup>5</sup> Raji cells per tube were pre blocked ~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<sub>10</sub>** 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.

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

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