PERFORMANCE DATA SHEET
1947

Recombinant muIg/Biotin *Control Protein**

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CATALOG#: 581-030
QUANTITY: 25 µg **CONCENTRATION: 0.25 mg/ml**

Molecular Structure: A soluble fusion protein consisting of residual murine **CD8 signal peptide** and linker:
(1)**kpqapelrgsagt**(13)
fused **to murine IgG2a Fc** and hinge regions:
(14)**eprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnvevhtaqtqthred ynstlrvvsalpiqhqdwmsgkefkckvnnkdlpapiertiskpkgsvrapqvyvlpppeeemtkkqvtltcmvtdfmpediy vewtnngktelnykntepvldsdgsyfmysklrvekknwvernsyscsvvheglhnhhttksfsrtpgk**(246)

Predicted non glycosylated monomeric molecular weight: 27.8 kd. In SDS-PAGE, the protein migrates at ~55kd non reduced, and ~30kd reduced.

Transfectant Cell Line: CHO

INFORMATION: Recombinant muIg control protein was engineered to be a negative control for murine IgG2a Fc containing fusion proteins.

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: Recombinant 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 by size exclusion chromatography.

PERFORMANCE: Recombinant muIg/Biotin was reactive in Goat anti-mouse Ig EIA utilizing SA/HRP as a detector.
Product was tested as a negative control in Flow cytometry at 10 µg/ml using Streptavidin/R-PE(Cat # 253-050) as a 2^{o} reagent. All cells tested failed to stain or display a significant mean shift above a buffer background.
Cells tested: Human PBMC, HPB-MLT, Nalm-6, U-937 and Raji (cells were pre blocked with human IgG to prevent non specific binding).

This Product is intended for Laboratory Research use only.

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