

**PERFORMANCE DATA SHEET**

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**Monoclonal anti-human CD4 (Domain 2)\*****mAb name/Clone:** M-T441**Isotype:** Mouse IgG2b**Immunogen:** P815 cell transfected with human CD4**CATALOG#:** 148-020**QUANTITY:** 100 µg**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD4 is a cell surface glycoprotein of 55 kd expressed on most thymocytes, on about two thirds of peripheral T cells, and on some monocyte macrophage lineage cells. CD4 interacts with MHC Class II molecules in an accessory role during foreign antigen recognition by T cells. The extracellular portion of CD4 is an array of four Ig-like domains. The amino terminal region of CD4 is a receptor for the HIV-1 viral protein gp120. Antibody M-T441 recognizes the domain 2 region of the CD4 molecule and reacts with human CD4 cell transfectants.

**References:** Characterized by the laboratory of Dr. E.P. Reiber. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 476-478. R. König, et al, (1995) J Exp Med **182**: 779-787.

**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:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD4 antibody at **5 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.68** log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b (Catalog# 284-010) negative control at a similar concentration.

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

**Binding of anti-CD4 mAb +GAM/FITC to human HPB-MLT cells**

