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DATA SHEET

Reagent:	Anti-Human CD4 Hybridoma (SIM.2)
Catalog Number:	511
Lot Number:	97089
Release Category:	E
Provided:	1 vial frozen cells; 6×10^6 cells/vial.
Isotype:	IgG ₁ , K
Propagation Medium:	DMEM supplemented with 2 mM L-glutamine, 10 mM HEPES, 0.2 U/ml insulin, 0.05 mg/ml pyruvate, 0.15 mg/ml oxalacetic acid, and 5×10^{-5} M β -mercaptoethanol, 80%; fetal bovine serum, 10%; NCTC-135, 10%.
Freeze Medium:	Fetal bovine serum, 90%, DMSO, 10%.
Growth Characteristics:	Cells grow as a single cell suspension. Maintain at 10^5 cells/ml for best growth conditions. Split 1:10 every 3 to 4 days. Freeze at 6×10^6 /ml. Best antibody yields occur during mid-log growth phase. Expected titer is 10-20 μ g antibody/ml. If duplicate vials are provided, they should be combined and grown simultaneously.
Description	CB6F1 splenocyte x P3X63 Ag8.653 myeloma.
Special Characteristics:	SIM.2 and SIM.4 antibodies recognizes human CD4. SIM.4 recognizes the same epitope as Leu 3a; SIM.2 recognizes a different epitope. Both antibodies block HIV-induced syncytium formation. Antibodies were raised against Sup-T1 cells, and work in immunoprecipitation, immunofluorescence, and ELISA assays.
Sterility:	Negative for aerobic and anaerobic bacteria, mycoplasma, fungi, and yeast.
Recommended Storage:	Liquid nitrogen

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Contributor: Dr. James E.K. Hildreth.

References: McCallus DE, Ugen KE, Sato AI, Williams WV, Weiner DB. Construction of a recombinant bacterial human CD4 expression system producing a bioactive CD4 molecule. *Viral Immunol* **5**:163 172, 1992.

Oravec T, Norcross MA. Costimulatory properties of the human CD4 molecule: enhancement of CD3-induced T cell activation by human immunodeficiency virus type 1 through viral envelope glycoprotein gp120. *AIDS Res Hum Retroviruses* **9**:945-955, 1993.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Anti-Human CD4 Hybridoma (SIM.2) from Dr. James Hildreth."

Recipient must not use or incorporate the reagent for commercial purposes.

Last Updated July 07, 2016

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