



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Anti-Human CD4 Monoclonal (SIM.4)

Catalog Number: 724

Lot Number: 030293

Release Category: E

Provided: 1.0 ml culture supernatant.

Host Site: CB6F1 mouse.

Titer: 12.7 µg/ml. Detects 1.0 µg/ml CD4 in ELISA at 1:32.

Special Characteristics: SIM.2 and SIM.4 antibodies recognize human CD4. SIM.4 recognizes the same epitope as Leu 3a; SIM.2 recognizes a different epitope. Both antibodies blocks HIV-induced syncytium formation. Antibodies were raised against Sup-T1 cells, and work in immunoprecipitation, immunofluorescence, and ELISA assays.

Recommended Storage: Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: Dr. James E.K. Hildreth.

Isotype: IgG1, K

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.

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.

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 Monoclonal (Sim.4) from Dr. James Hildreth."

Research Chart

ANTIBODY	CAT. NO.	LOT	CONCENTRATION/TITER	ISOTYPE
SIM.2	723	5 98100	12.7 µg/ml. Detects 1.0 µg/ml CD4 in ELISA at 1:32.	IgG _{2b} , ?
SIM.4	724	4 030293	5.1 µg/ml. Detects 1.0 µg/ml CD4 in ELISA at 1:8.	IgG ₁ , ?

Last Updated

October 27, 2015

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