



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** Anti-Human CD4 Monoclonal (SIM.2)

**Catalog Number:** 723

**Lot Number:** 098100

**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:** IgG<sub>2b</sub>, 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.

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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.2) 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 <sub>2b</sub> , K
SIM.4	724	4 030293	5.1 µg/ml. Detects 1.0 µg/ml CD4 in ELISA at 1:8.	IgG <sub>1</sub> , K

**Last Updated**

October 27, 2015

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