



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

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

Catalog Number: 723

Lot Number: 098134

Release Category: E

Provided: 1.0 ml culture supernatant.

Host Site: CB6F1 mouse.

Titer: Detectable by ELISA using soluble CD4 at a dilution of 1:1000.

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.

Endotoxin: 19.14 EU/mL* (Lot 6 060882)

*NOTE: Endotoxin has been shown to induce chemokines and other soluble HIV and SIV inhibitory factors in primary cultures of PBMC, monocytes and macrophages (Verani et al., J Exp Med 185:805-816, 1997; J Immunol 168:6388-6396, 2002; Montefiori in preparation). Thus, caution is advised when using this reagent for in vitro studies involving primary cells.

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_{2b}, K

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.

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 Monoclonal (SIM.2) from Dr. James Hildreth."

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

Last Updated October 27, 2015

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