



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-SIVmac239 gp41 Monoclonal (4G8)

Catalog Number: 12348

Lot Number: 170031

Release Category: B

Provided: 100 µg of purified antibody at 1 mg/mL in PBS pH 7.2 (sterile filtered and does not contain preservatives).
Endotoxin = 0.1 EU/mg by LAL method
Purity = 95% by densitometric analysis of the Coomassie Blue-stained SDS-PAGE gel

Description: A recombinant monoclonal antibody to SIVmac239 gp41, (ERKVDFLEEQI)

Host: SIVmac239

Titer: ELISA >1:81,000 against cat# 12459 peptide.

Special Characteristics: This recombinant antibody was produced in a 293-6E cell expression system and purified by Protein A chromatography. It was isolated from a rhesus monkey infected with SIVmac239-gp41/g23 (SIVmac239 lacking the second and third glycosylation sites of gp41).
4G8 demonstrates high binding to SIVmac239 gp41/g23 and gp160 by ELISA and Western blot but little or none to WT SIVmac239 gp41 and gp160. This mAb neutralizes SIVmac239-gp41/g23 virus but not WT SIVmac239.

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

Contributor: Dr. Ronald Desrosiers

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.

Isotype: IgG1κ

References: Martinez-Navio, J. M., & Desrosiers, R. C. (2012). Neutralizing capacity of monoclonal antibodies that recognize peptide sequences underlying the carbohydrates on gp41 of simian immunodeficiency virus. J Virol, 86(23), 12484-12493.
doi:10.1128/JVI.01959-12 [PUBMED](#)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Anti-SIVmac239 gp41 Monoclonal (4G8) (cat# 12348) from Dr. Ronald Desrosiers." Also include the reference cited above in any publications.

Last Updated April 28, 2017

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