



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Anti-SIVmac gp41 Monoclonal (4B2)
<b>Catalog Number:</b>	12224
<b>Lot Number:</b>	120212
<b>Release Category:</b>	B
<b>Provided:</b>	100 µg/vial in PBS at a concentration of 1.66 mg/mL. The hybridoma (cat# 12196) is also available <a href="#">[LINK]</a> .
<b>Description:</b>	4B2 binds the highly immunogenic region at the beginning of the cytoplasmic tail of SIVmac gp41 (also known as the Kennedy Epitope). It was isolated from a SIVmac239-infected monkey.
<b>Titer:</b>	1:64,000 against the peptide CFSSPPSYFQQTHIQDPALPTREGKER
<b>Special Characteristics:</b>	The mAb binds the original peptide used for screening (CFSSPPSYFQQTHIQDPALPTREGKER) and two shorter versions (QQTHIQDPALPTRE and IQQDPALPTREGKER). The epitope therefore mapped to: IQQDPALPTRE. The epitope overlaps with mAb 6E6 (cat#12223). It doesn't bind by ELISA to recombinant protein SIVmac239 gp120 or gp140 (both lacking the domain responsible for binding) or to any other of the peptides overlapping the whole SIV Env. There is no detectable neutralization for the tested viruses (see cited publication).  See also the mAb 6E6 (cat# 12223) <a href="#">[LINK]</a> and its hybridoma (cat# 12197) <a href="#">[LINK]</a> .
<b>Recommended Storage:</b>	Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
<b>Contributor:</b>	Dr. Ronald C. Desrosiers
<b>Isotype:</b>	IgG1 lambda

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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.

**References:** Evidence against Extracellular Exposure of a Highly Immunogenic Region in the C-Terminal Domain of the Simian Immunodeficiency Virus gp41 Transmembrane Protein. Postler TS, Martinez-Navio JM, Yuste E and Desrosiers RC. J Virol. 2012 Jan;86(2):1145-57. Epub 2011 Nov 9. PMID: 22072749

**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 mAb (4B2) from Dr. Ronald Desrosiers

**Last Updated** May 08, 2018

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