

**Centre for AIDS Reagents**  
**Data Sheet**

<b>Reagent:</b>	Anti-SIVmac239 gp41 Monoclonal (4B2)
<b>Catalogue:</b>	<b>100401</b>
<b>Lot Number:</b>	120212
<b>Provided:</b>	100 µg/vial in PBS at a concentration of 1.66 mg/mL.
<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>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>Special Characteristics:</b>	The mAb binds the original peptide used for screening (CFSSPPSYFQQTHIQQDPALPTREGKER) and two shorter versions (QQTHIQQDPALPTRE and IQQDPALPTREGKER). The epitope therefore mapped to: IQQDPALPTRE. The epitope overlaps with mAb 6E6. 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).
<b>Isotype:</b>	IgG1 lambda
<b>Titre:</b>	1:64,000 against the peptide CFSSPPSYFQQTHIQQDPALPTREGKER
<b>Contributor:</b>	Dr. Ronald C. Desrosiers
<b>References:</b>	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

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