



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Monoclonal Anti-Simian Immunodeficiency Virus (SIV) SIVmac gp120 Protein (KK42, produced <i>in vitro</i>)
Catalog Number:	ARP-4670
Lot Number:	190131
Release Category:	B
Provided:	Each vial of ARP-4670 contains approximately 100 micrograms of purified antibody at a concentration of 3.186 milligrams per milliliter in phosphate buffered saline (PBS).
Description:	ARP-4670 is a monoclonal antibody to SIVmac251 gp120, specifically to the V3 region (epitope: amino acids 321 to 340).
Host:	BALB/c mouse splenocyte × NS-0 myeloma
Titer:	The user should determine the optimal concentration for any application.
Special Characteristics:	<p>This monoclonal antibody was produced in cell culture. It originates from a hybridoma. The hybridoma was created by immunizing BALB/c mice with a SIVmac251 gp160 vaccinia recombinant (vAbT253), then boosting with glutaraldehyde-fixed SIVmac 11/88 from C8166 cells. The resulting splenocytes were fused to NS-0 myeloma cells. KK42 is a non-neutralizing antibody. It recognizes gp120 from SIVmac251, cyn186, SIVsm7 and SIVsmmB670, but does not react with HIV-2 SBL virus.</p> <p>Suggested applications are western blotting, radio-immunoprecipitation assays (RIPA) and immunofluorescence.</p>
Recommended Storage:	Keep at 4°C only for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
Contributor:	Dr. Karen Kent and Miss Caroline Powell (produced by CFAR, NIBSC)
Isotype:	IgG1
References:	Kent, K. A., et al. "Identification of Two Neutralizing and 8 Non-Neutralizing Epitopes on Simian Immunodeficiency Virus Envelope Using Monoclonal Antibodies." <i>AIDS Res. Hum. Retroviruses</i> 8 (1992): 1147-1151. PubMed: 1380261 .
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH and the Centre for AIDS Reagents, NIBSC, UK, supported by EURIPRED (EC FP7 INFRASTRUCTURES-2012 – INFRA-2012-1.1.5: Grant Number 31266) (www.euripred.eu): Monoclonal Anti-Simian Immunodeficiency Virus (SIV) SIVmac gp120 Protein (KK42, produced <i>in vitro</i>), ARP-4670 (CFAR# 3284), contributed by Dr. Karen Kent and Caroline Powell." Also include the reference cited in any publications.
Biosafety Level: 1	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in Microbiological and Biomedical Laboratories</u> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm .
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