

DATA SHEET

For research use only. Not for use in humans.

Reagent:	Monoclonal Anti-Simian Immunodeficiency Virus (SIV) SIVmac251 gp160/gp120 (KK17, produced <i>in vitro</i>)
Catalog Number:	ARP-4669
Lot Number:	180157
Provided:	Each vial of ARP-4669 contains 1 mL of culture supernatant fluid.
Description:	ARP-4669 is a monoclonal antibody to simian immunodeficiency virus (SIV) SIVmac251 gp160/gp120.
Host:	BALB/c mouse splenocyte × NS-0 myeloma
Titer:	The user should determine the optimal concentration for any application.
Special Characteristics:	ARP-4669 was produced in cell culture and originates from a hybridoma generated by immunizing BALB/c mice with a SIVmac251 gp160 vaccinia recombinant (vAbT253) and subsequently boosted with glutaraldehyde-fixed SIVmac11/88 prepared from C8166 cells. Splenocytes from immunized mice were fused with NS0 myeloma cells to establish the hybridoma line. The antibody recognizes the SIV env region (amino acids 8 to 303) and exhibits neutralizing activity. It reacts with SIV strains mac251, cyn186, and sm7, but does not recognize SIV Delta, HIV-2 SBL, or HIV-2 CBL21. It detects gp160/gp120 in western blotting and is also reactive in radio-immunoprecipitation assays (RIPA) and surface fluorescence assays.
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. Karen Kent and Caroline Powell (Produced by CFAR, NIBSC)
Isotype:	IgG2a
References:	Kent, K. A., et al. "Production and of Monoclonal Antibodies to Simian Immunodeficiency Virus Envelope Glycoproteins." <i>AIDS</i> 5 (1991): 829-836. PubMed: 1716442. 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 BEI Resources, 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) SIVmac251 gp160/gp120 (KK17, produced <i>in vitro</i>), ARP-4669 (CFAR# 3283)." 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.

Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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