DATA SHEET

For research use only. Not for use in humans.

Reagent: Monoclonal Anti-Simian Immunodeficiency Virus (SIV)mac251 Nef Protein, Clone 17.2 (produced *in vitro*)

Catalog Number: ARP-2659

Lot Number: 180089

Release Category: A

Provided: Each vial of ARP-2659 contains approximately 250 micrograms of purified antibody in phosphate buffered saline (PBS, pH 7.4) containing 0.1% sodium azide. A concentration of 1 mg per mL was determined by A_{280} spectrophotometry.

Description: ARP-2659 is a monoclonal antibody to the Nef protein of SIV-1. This antibody is mapped to amino acids 71 to 80 (-PAEEREKLAY-,SIV). ARP-2659 is a monoclonal antibody produced in cell culture and purified by Protein G affinity chromatography. It originates from a hybridoma, created by immunizing mice with a recombinant SIVmac251 Nef protein purified from *Escherichia coli* and fusing the resulting splenocytes with SP2 myeloma cells.

Host: BALB/c splenocyte × SP2 myeloma

Titer: Western blot: 0.5 to 1 µg per mL
End users should determine optimal concentrations to be used in assays.

Special Characteristics: This antibody reacts in ELISA, western blot, RNA immunoprecipitation (RIP) and immunohistochemistry assays with SIVmac251 Nef. It also reacts in immunofluorescence assays with both SIVmac239 Nef and SIVmac1A11 Nef.

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: Kai Krohn and Vladimir Ovod

Isotype: IgG1

References:

Piguet, V., et al. "Mechanism of Nef-Induced CD4 Endocytosis: Nef Connects CD4 with the µ Chain of Adaptor Complexes." EMBO J. 17 (1998): 2472-2481. PubMed: 9564030.

Chan, K. S., et al. "Nef from Pathogenic Simian Immunodeficiency Virus Is a Negative Factor for Vaccinia Virus." Proc. Natl. Acad. Sci. USA 102 (2005): 8734-8739. PubMed: 15930136.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Monoclonal Anti-Simian Immunodeficiency Virus (SIV)mac251 Nef Protein, Clone 17.2 (produced *in vitro*), ARP-2659, contributed by Dr. Kai Krohn and Dr. Vladimir Ovod."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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