

## DATA SHEET

**For research use only. Not for use in humans.**

<b>Reagent:</b>	Polyclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) (IgA, Subtype B)
<b>Catalog Number:</b>	ARP-12046
<b>Lot Number:</b>	160001
<b>Provided:</b>	Each vial of ARP-12046 contains approximately 40 µg of affinity-purified antibody in phosphate buffered saline (PBS; pH 7.4) at a concentration of 100 µg/mL in 10 mM sodium phosphate (pH 7.4), 137 mM NaCl and 2.7 mM KCl.
<b>Host or Host Site:</b>	IgA from a subject infected with subtype B HIV-1 for 22 years with minimal anti-retroviral therapy.
<b>Description:</b>	The polyclonal IgA is from a subject infected with HIV-1 for 22 years. Antibodies directed against multiple epitopes are present. The antibody species responsible for the observed cross-subtype neutralizing activity are directed to the gp120 421-433 epitope. Purity is > 90%, determined from silver-stained denaturing gel electrophoresis.
<b>Special Characteristics:</b>	This antibody preparation does not neutralize pseudovirion infection of the TZM-bl cell line. It neutralizes infection of the phytohemagglutinin (PHA)-activated human PBMCs by genetically diverse primary strains [belonging to subtypes A, B, C, D and AE]. <sup>1,2</sup> ARP-12046 binds electrophilic 416-433 peptide detectably at 100 µg/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>Contributors:</b>	Drs. Sudhir Paul and Stephanie Planque
<b>References:</b>	Planque, S., et al. "Neutralization of Genetically Diverse HIV-1 Strains by IgA Antibodies to the gp120-CD4-Binding Site from Long-Term Survivors of HIV Infection." <i>AIDS</i> 24 (2010): 875-884. PubMed: <a href="#">2881561</a> .  Karle, S., et al. "Cross-Clade HIV-1 Neutralization by an Antibody Fragment from a Lupus Phage Display Library." <i>AIDS</i> 18 (2004): 329-331. PubMed: <a href="#">15075554</a> .
<b>Citation:</b>	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) (IgA, Subtype B), ARP-12046."
<b>Biosafety Level: 1</b>	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. <a href="#">Biosafety in Microbiological and Biomedical Laboratories (BMBL)</a> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020.
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