

Product Information Sheet for HRP-20366

Monoclonal Anti-Simian-Chimpanzee Immunodeficiency Virus Type 1 (SCIV-1) gp120 V2, Recombinant Macaque Antibody, Clone T927_w62_P3G11 (produced *in vitro*)

Catalog No. HRP-20366

Lot No. 70071193

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For research use only. Not for use in humans.

Contributor and Manufacturer:

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Product Description:

Antibody Class: IgG1k

HRP-20366 is a recombinant monoclonal antibody cloned from a purified single B cell isolated from rhesus macaque (animal ID T927; lineage 5) infected with chimeric simian-chimpanzee immunodeficiency virus (SCIV-CAM13K) with an engineered gp120 variable loop 2 (V2) of the Env protein, 62 weeks post-infection.^{1,2} It was produced in Expi293F cells by cotransfecting paired heavy and light chain immunoglobulin expression plasmids, purified from culture supernatants by rProtein A/Protein G GraviTrap™ column chromatography, and buffer-exchanged into phosphate-buffered saline (PBS).²

HRP-20366 recognizes the V2-apex epitopes of the gp120 protomers and exhibits various degrees of cross-reactivity and potency to human immunodeficiency virus type 1 (HIV-1) strains in neutralization assays.¹ The epitope bound by HRP-20366 recognizes a distinct conformation of the Env glycoprotein epitope than that recognized by V2-specific monoclonal antibodies ARP-12550 and ARP-12141.¹ This antibody can be used to detect the presence of unwanted Env conformation in immunogens designed to elicit broadly neutralizing antibodies by vaccination.

Material Provided:

Each vial contains approximately 50 µg of purified monoclonal antibody in PBS (pH 7.2) at a concentration of 1 mg/mL.

Packaging/Storage:

HRP-20366 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Simian-Chimpanzee Immunodeficiency Virus

Type 1 (SCIV-1) gp120 V2, Recombinant Macaque Antibody, Clone T927_w62_P3G11 (produced *in vitro*), HRP-20366."

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.

Disclaimers:

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References:

1. Hahn, B. H., Personal Communication.
2. Bibollet-Ruche, F., et al. "A Germline-Targeting Chimpanzee SIV Envelope Glycoprotein Elicits a New Class of V2-Apex Directed Cross-Neutralizing Antibodies." *mBio* 14 (2023): e0337022. PubMed: 36629414.

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