Reagent: Monoclonal Anti-Human Immunodeficiency Virus (HIV)-1 gp120 Protein (VRC01, produced in vitro)

Catalog Number: ARP-12033
Lot Number: 180229
Release Category: C

Provided: Each vial of ARP-12033 contains approximately 500 micrograms of purified antibody at a concentration of 1 mg per mL in PBS, pH 7.2. Endotoxin content is 0.2 EU per mg. Purity is approximately 95% by densitometric analysis of the Coomassie Blue-stained SDS-PAGE gel under non-reducing conditions.

Description: ARP-12033 is a recombinant monoclonal antibody to HIV-1 gp120, specifically the CD4-binding site.

Host: Human
Titer: Serological reactivity measured by indirect ELISA against purified recombinant HIV-1 BaL gp120 protein (ARP-4961) estimated a titer of 1:512,000.

Special Characteristics: This recombinant antibody was produced in a 293-6E expression system and purified by protein A affinity resin chromatography. This antibody originates from the B-cells of a HIV-1 infected donor. VRC01 neutralizes a broad variety of laboratory HIV-1 strains and primary isolates and is active against all major subtypes. Suggested working dilutions are 5 micrograms per mL for ELISA and 10 micrograms per mL for HIV-1 neutralization.

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: Xueling Wu, Zhi-Yong Yang, Yuxing Li, Gary Nabel, John Mascola
Isotype: IgG1, kappa


Citation: Acknowledgment for publications should read “The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Monoclonal Anti-Human Immunodeficiency Virus (HIV)-1 gp120 Protein (VRC01, produced in vitro), ARP-12033, contributed by Dr. John Mascola.” Also include the reference cited in any publications.

Biosafety Level: 1

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