Human anti-HIV-1 (C5 (gp120)), (50-59), #MM-0259-P

DATASHEET

Product name: Human HIV-1 (C5 (gp120)) antibody

Background information: Of the two types of Human immunodeficiency virus (HIV) which have been characterized, HIV-1 is more infective and is prevalent globally. The HIV virion is encapsulated by a viral envelope that contains complexes of surface proteins, which are important for the virus to attach and fuse to infect target cells. A precursor molecule known as gp160 (glycoprotein 160) is cleaved by proteases into gp120 (glycoprotein 120) and gp41 (glycoprotein 41), glycoproteins that make up the envelope proteins of HIV. The gp120 protein is composed of five variable regions (V1-V5) which often form loop structures, and five constant regions (C1-C5). The C5 region comprises the carboxy terminus of gp120 and shares sequence similarity with HLA (human leukocyte antigen) class I and II molecules.

Product description: A specific antibody against human HIV-1 (C5 (gp120)) amino acids 495-516. This antibody was generated from HIV-infected individuals by a method based on the Epstein-Barr virus transformation of peripheral blood mononuclear cells (PBMCs) followed by fusion with heteromyeloma cells. The antibody is in PBS.

Format: 100 µg of lyophilized, purified, antibody. Reconstitute in 100 µl of distilled H2O for a 1 µg/µl solution. It contains no additives.

Species: Human

Clonality: Monoclonal

Isotype: IgG3λ

Reactivity / specificity: The antibody recognizes the C5 region of the HIV-1 protein gp120.

Applications: ELISA (E), FACS

Recommended starting dilutions: Optimal dilution has to be determined by the user.

Storage: Lyophilized antibody can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage. To avoid freeze-thaw cycles, reconstituted antibody should be aliquoted before freezing for short-term storage (-20°C) or for long-term storage (-80°C). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.

Stability: Minimum 1 year from reception date.

References:


2014-11-04


Limitations: This product is to be used for research purposes only.