Monoclonal Anti-HSV-2 (strain 333) Glycoprotein B (gB) Antibody, Human IgG1 (M1D09-a)

Catalog # GLB-MY2722b

Source

Chimeric Monoclonal Anti-HSV-2 (strain 333) Glycoprotein B (gB) Antibody, Human IgG1 (M1D09-a) is recombinantly expressed in HEK293. It consists of mouse variable regions genetically fused to human IgG1 constant domains.

Antibody Type

Recombinant Monoclonal

Clone

M1D09-a

Isotype

Human IgG1, Kappa

Host Species

Mouse

Specificity

Specifically recognizes HSV-2 (strain 333) gB protein.

Application

Application	Recommended Use / Performance
ELISA	1-2 ng/mL

Purification

Protein A purified.

Aggregation

Less than 5%, as determined by SEC-MALS.

Concentration

Please refer to the Certificate of Analysis (CoA).

Form

Lyophilized

Formulation

Lyophilized from a 0.22 μm-filtered solution in PBS (pH 7.4) containing 0.01% PF68, with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

Shipping

Lyophilized product is shipped at ambient temperature.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Notices

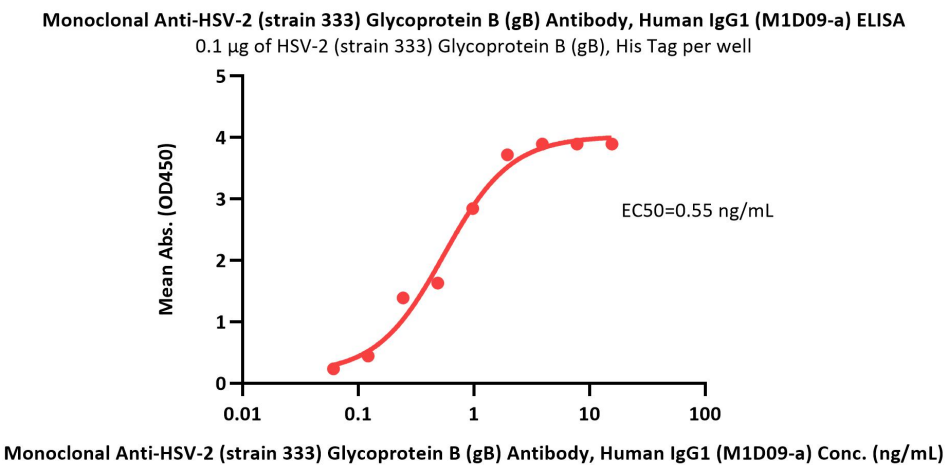
Product Specific Notices: For research use only.

ACRO Quality Management System

- QMS(ISO, GMP)

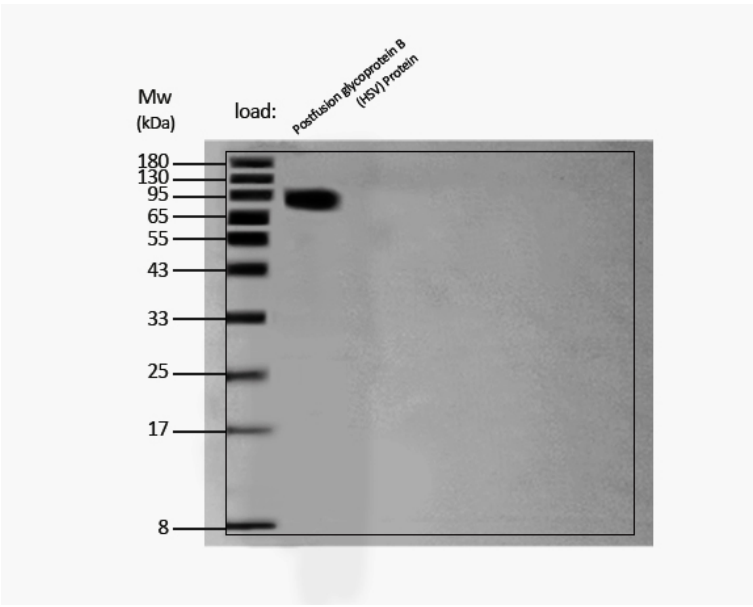
- Quality Advantages
- Quality Control Process

Bioactivity-ELISA



Immobilized HSV-2 (strain 333) Glycoprotein B (gB), His Tag (Cat. No. GLB-H52H3) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-HSV-2 (strain 333) Glycoprotein B (gB) Antibody, Human IgG1 (M1D09-a) (Cat. No. GLB-MY2722b) with a linear range of 0.06-1 ng/mL (QC tested).

Western Blot



Western blot analysis of HSV-2 (strain 333) Glycoprotein B (gB), His Tag (Cat. No. GLB-H52H3). The protein was loaded at 400 ng per lane and detected using Monoclonal Anti-HSV-2 (strain 333) Glycoprotein B (gB) Antibody, Human IgG1 (M1D09-a) at 0.02 μg/mL, followed by (HFC)-Peroxidase AffiniPure Goat Anti-Human IgG, Fcγ fragment specific secondary antibody at a 1:2000 dilution. A specific band was detected at approximately 75-95 kDa.

Background

Herpes simplex virus type 2 (HSV-2) is the primary cause of genital herpes. Glycoprotein B (gB) is a highly conserved, essential envelope protein that mediates viral fusion and entry into host cells. Because of its critical role in infection, gB is a prime target for neutralizing antibodies. High-affinity anti-gB antibodies are crucial for viral diagnostics, antiviral research, and vaccine development.