## Monoclonal Anti-HSV-1 (strain KOS) gB Antibody, Human IgG1 (1A2) (MALS verified)





#### Source

Monoclonal Anti-HSV-1 (strain KOS) gB Antibody, Human IgG1 (1A2) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

1A2

**Species** 

Mouse

**Isotype** 

Human IgG1 | Human Kappa

Conjugate

Unconjugated

**Antibody Type** 

Recombinant Monoclonal

Reactivity

Virus

### Immunogen

Recombinant HSV-1 (strain KOS) post-gB Protein is expressed from human 293 cells.

# **Specificity**

Specifically recognizes HSV-1 (strain KOS) post-gB Protein.

## **Application**

**Application** Recommended Usage

ELISA 0.1-63 ng/mL

### **Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

#### **Purification**

Protein A purified/ Protein G purified

### **Formulation**

Lyophilized from 0.22  $\mu m$  filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

#### Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

### **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.

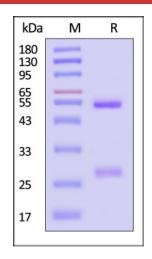
SDS-PAGE SEC-MALS



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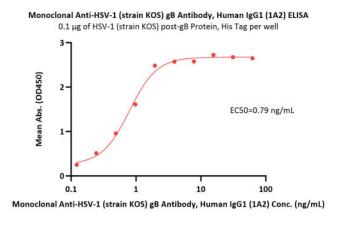
Catalog # HSB-MY2113



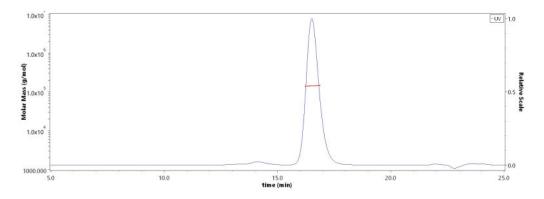


Monoclonal Anti-HSV-1 (strain KOS) gB Antibody, Human IgG1 (1A2) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With <u>Star Ribbon Prestained Protein Marker</u>).

# **Bioactivity-ELISA**



Immobilized HSV-1 (strain KOS) post-gB Protein, His Tag (Cat. No. POB-V52H3) at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Monoclonal Anti-HSV-1 (strain KOS) gB Antibody, Human IgG1 (1A2) (Cat. No. HSB-MY2113) with a linear range of 0.1-2  $\mu$ g/mL (QC tested).



The purity of Monoclonal Anti-HSV-1 (strain KOS) gB Antibody, Human IgG1 (1A2) (Cat. No. HSB-MY2113) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS. Report

## Background

Herpes simplex viruses (HSV)-1 and HSV-2 cause a variety of human diseases, including encephalitis, keratitis, neonatal disease, and mucocutaneous and skin diseases such as herpes labialis, genital herpes, and herpetic whitlow. HSV-1 gB, which is a class III fusion glycoprotein, is a major target of antibody-mediated immunity (21). It plays an essential role in the entry of the virus into a host cell, together with other HSV-1 envelope glycoproteins, including gD and a complex of gH and gL (gH/gL).

### **Clinical and Translational Updates**

