



Source

Monoclonal Anti-VZV gH & gL Antibody, Human IgG1 (4F12) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

4F12

Species

Mouse

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Virus

Immunogen

Recombinant Varicella zoster virus (strain Oka vaccine) gH&gL Protein is expressed from human 293 cells.

Specificity

Specifically recognizes VZV gH & gL.

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 µm 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

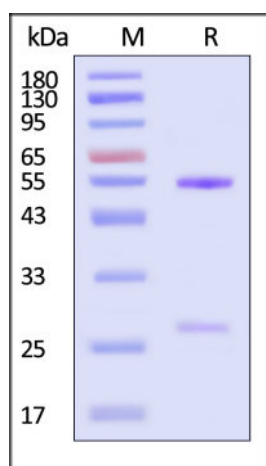
SEC-MALS

Discounts, Gifts, and more!

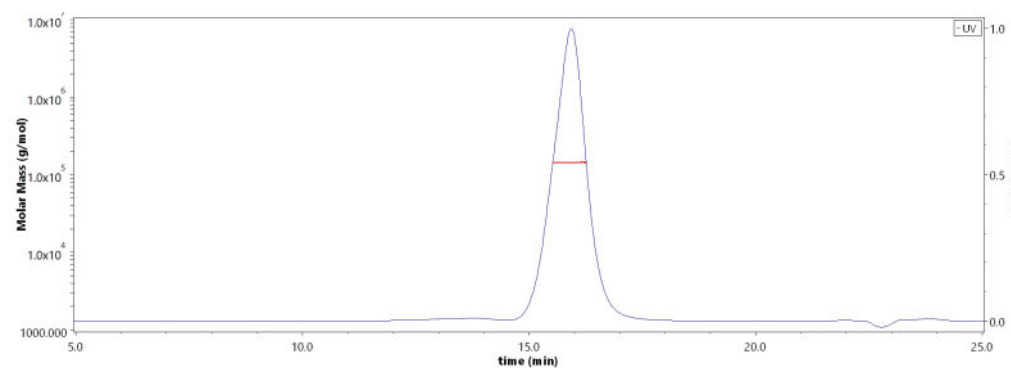


Monoclonal Anti-VZV gH & gL Antibody, Human IgG1 (4F12) (MALS verified)

Catalog # GHL-MY2111



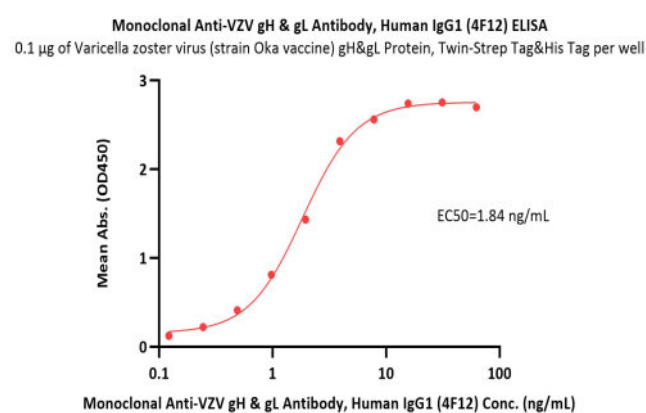
Monoclonal Anti-VZV gH & gL Antibody, Human IgG1 (4F12) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Monoclonal Anti-VZV gH & gL Antibody, Human IgG1 (4F12) (Cat. No. GHL-MY2111) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA



Immobilized Varicella zoster virus (strain Oka vaccine) gH&gL Protein, Twin-Strep Tag&His Tag (Cat. No. GHL-V5283) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-VZV gH & gL Antibody, Human IgG1 (4F12) (Cat. No. GHL-MY2111) with a linear range of 0.1-4 ng/mL (QC tested).

Background

Varicella-zoster virus (VZV) is the alphaherpesvirus that causes chicken pox (varicella) and shingles (zoster). As for all herpesviruses, VZV relies on a fusion complex comprised of three core glycoproteins, gB, gH and gL, required for entry of virions into host cells. VZV ORFs 37 and 60 encode gH (841aa; 118 kDa) and gL (160aa; 20 kDa), respectively, which are N- and O-linked glycosylated and form a heterodimer that is necessary for the activation of gB.

Clinical and Translational Updates

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