Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (4D1) (MALS verified)

Catalog # GL2-MY2095

Source

Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (4D1) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

4D1

Species

Mouse

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Virus

Immunogen

Recombinant Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV) is expressed from Baculovirus-Insect cells.

Specificity

Specifically recognizes Rubella virus Glycoprotein E1 (strain M33) (RUBV).

Application

Application	Recommended Usage
Western Blot	10 ug/mL
ELISA	0.3-78 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.

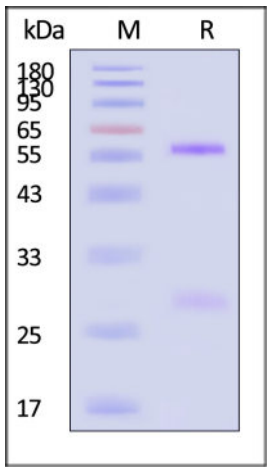
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

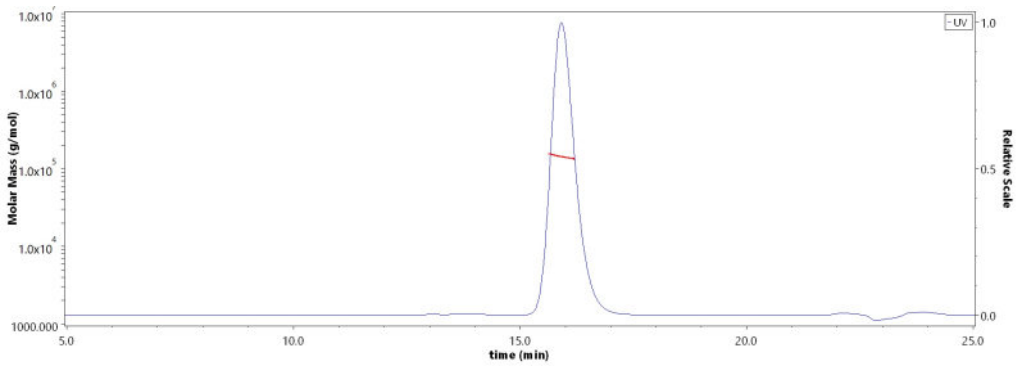
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

SEC-MALS

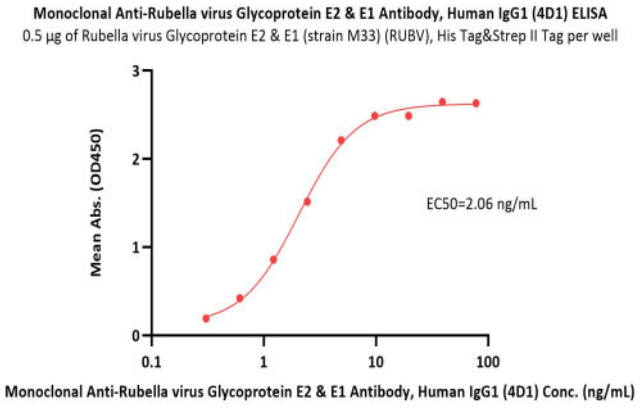


Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (4D1) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).



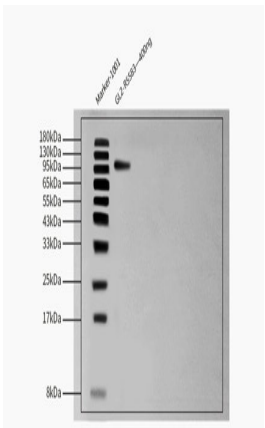
The purity of Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (4D1) (Cat. No. GL2-MY2095) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag (Cat. No. GL2-R5583) at 5 μg/mL (100 μL/well) can bind Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (4D1) (Cat. No. GL2-MY2095) with a linear range of 0.3-5 ng/mL (QC tested).

Western Blot



Detection of Monoclonal Anti-Rubella virus Glycoprotein E2 & E1(GL2-R5583) antibody-4D1, Human IgG1 | Human Kappa ,HEK by Western Blot. Monoclonal Anti-Rubella virus Glycoprotein E2 & E1(GL2-R5583) antibody-4D1, Human IgG1 | Human Kappa, HEK at 10 ug/ml dilution + Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag (MALS verified), His Tag at 400ng.

Secondary Antibody: (HFC)-HRP Goat Anti-Human IgG,Fcγ fragment specific (min X Bov,Hrs,Ms Sr Prot) at 1/2000 dilution.

Predicted band size: 95 kDa 12% Bis-Tris Protein Gel.

Background

Rubella virus (RV), the etiological agent of German measles, is a small enveloped RNA virus that belongs to the togavirus family. RV virions contain two glycosylated membrane proteins, E1 and E2, that exist as a heterodimer and form the viral spike complexes on the virion surface. Formation of an E1-E2 heterodimer is required for transport of E1 out of the endoplasmic reticulum lumen to the Golgi apparatus and plasma membrane.

Clinical and Translational Updates