



**Source**

Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (3E2) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

**Clone**

3E2

**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
ELISA	0.15-10 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:

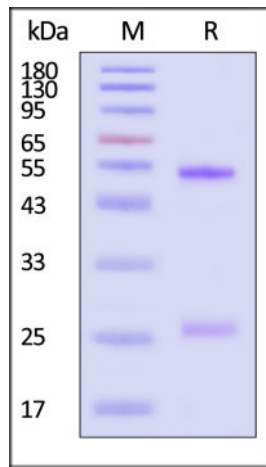
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

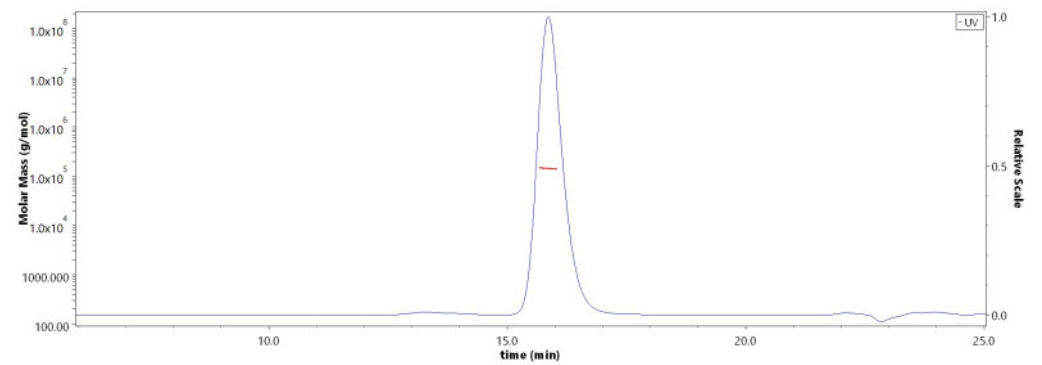
**SEC-MALS**

Discounts, Gifts,  
and more!



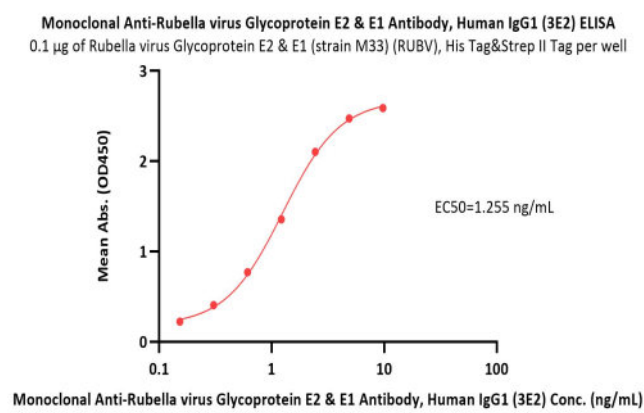


Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (3E2) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (3E2) (Cat. No. GL2-MY2094) 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 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Rubella virus Glycoprotein E2 & E1 Antibody, Human IgG1 (3E2) (Cat. No. GL2-MY2094) with a linear range of 0.15-2.5 ng/mL (QC tested).

### 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

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