



**Source**

Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (8F8) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

**Clone**

8F8

**Species**

Mouse

**Isotype**

Human IgG1 | Human Kappa

**Conjugate**

Unconjugated

**Antibody Type**

Recombinant Monoclonal

**Reactivity**

Virus

**Immunogen**

Recombinant Mumps virus (strain Miyahara vaccine) (MuV) Fusion glycoprotein F0 is expressed from human 293 cells.

**Specificity**

Specifically recognizes Mumps virus (strain Miyahara vaccine) (MuV) Fusion glycoprotein F0.

**Application**

Application	Recommended Usage
ELISA	0.06-8 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**

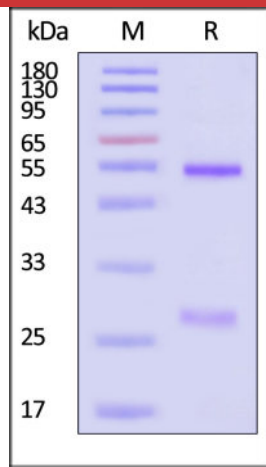
**SEC-MALS**

Discounts, Gifts,  
and more!

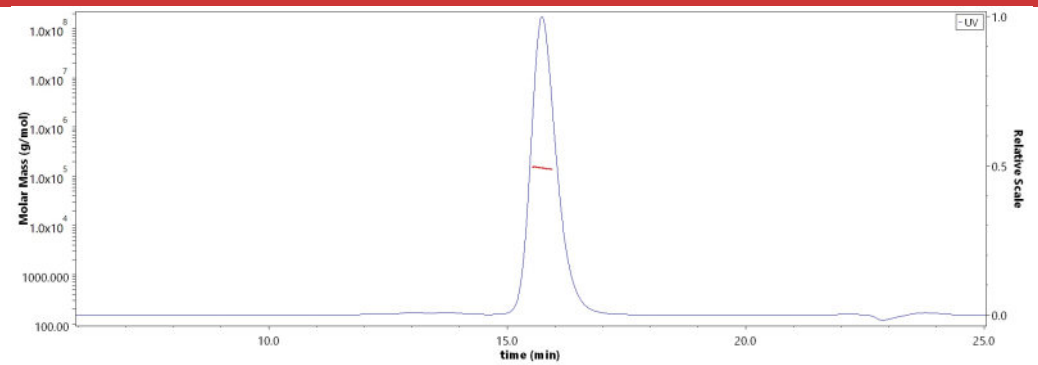


# Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (8F8) (MALS verified)

Catalog # RSF-MY2093

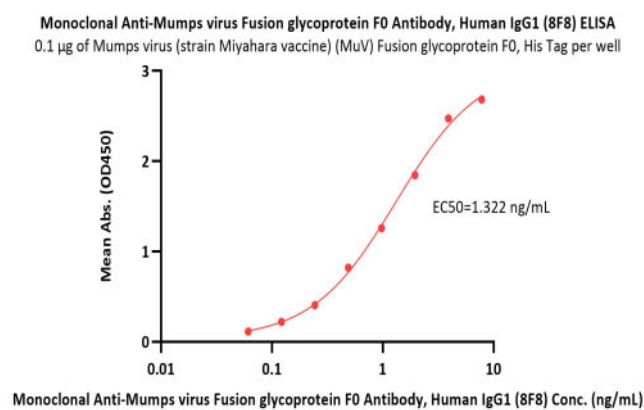


Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (8F8) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (8F8) (Cat. No. RSF-MY2093) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS. [Report](#)

## Bioactivity-ELISA



Immobilized Mumps virus (strain Miyahara vaccine) (MuV) Fusion glycoprotein F0, His Tag (Cat. No. RSF-V52H4) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (8F8) (Cat. No. RSF-MY2093) with a linear range of 0.06-2 ng/mL (QC tested).

## Background

The two surface glycoproteins of the mumps virus are the hemagglutinin-neuraminidase (HN) and Fusion proteins. These glycoproteins are essential for viral entry to host cells, and the spread of newly formed virions. The mumps fusion protein (F) is a 538-amino acid, class one fusion surface glycoprotein. It is responsible for the membrane fusion of virus and host cell. The un-cleaved protein has three hydrophobic regions: an amino-terminal signal peptide, an amino terminal region of F1 and the carboxyl-terminal membrane domain. This protein starts as a precursor molecule (F0), and is then cleaved into the active protein by the recognition of a R-X-L/R-R motif by a host endoprotease (furin). The F protein contains two disulfide-linked polypeptides (F1 and F2).

## Clinical and Translational Updates

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