Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (5A3) (MALS verified)

Catalog # RSF-MY2092

Source

Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (5A3) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

5A3

Species

Mouse

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Mumps virus (strain Miyahara vaccine) (MuV)

Immunogen

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

Specificity

Specifically recognizes Mumps virus Fusion glycoprotein F0 Protein.

Application

Application	Recommended Usage
Western Blot	10-0.02 ug/mL
ELISA	0.1-31 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 a 0.22 μm-filtered solution in PBS (pH 7.4), with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

For best performance, we strongly recommend following the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored in a lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

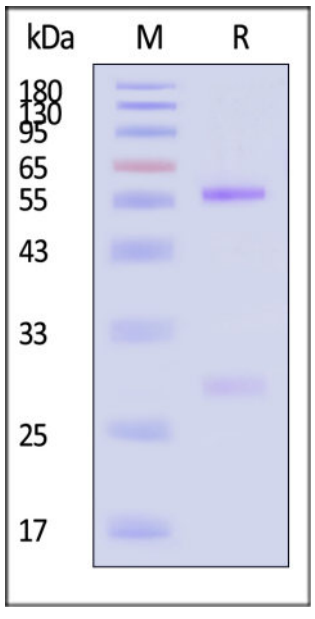
This product is stable after storage at:

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

ACRO Quality Management System

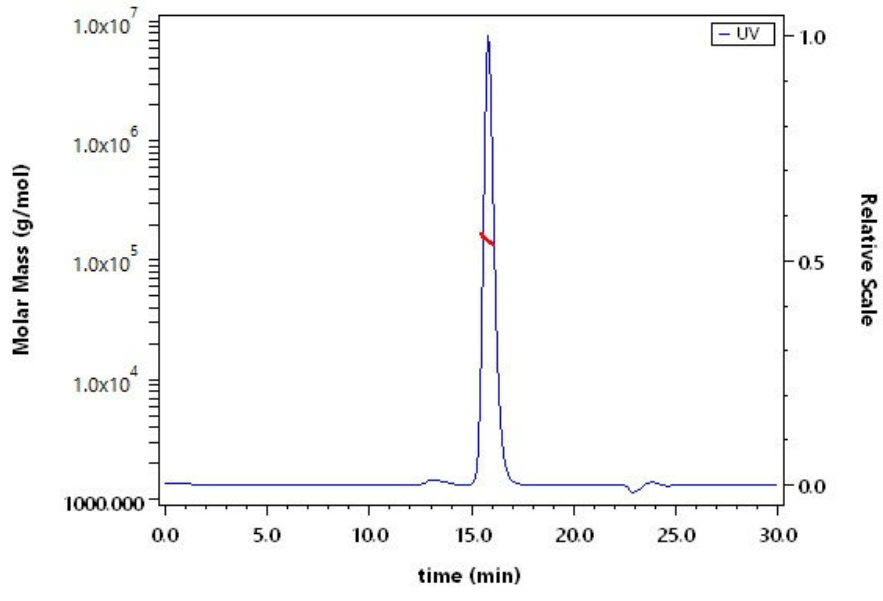
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



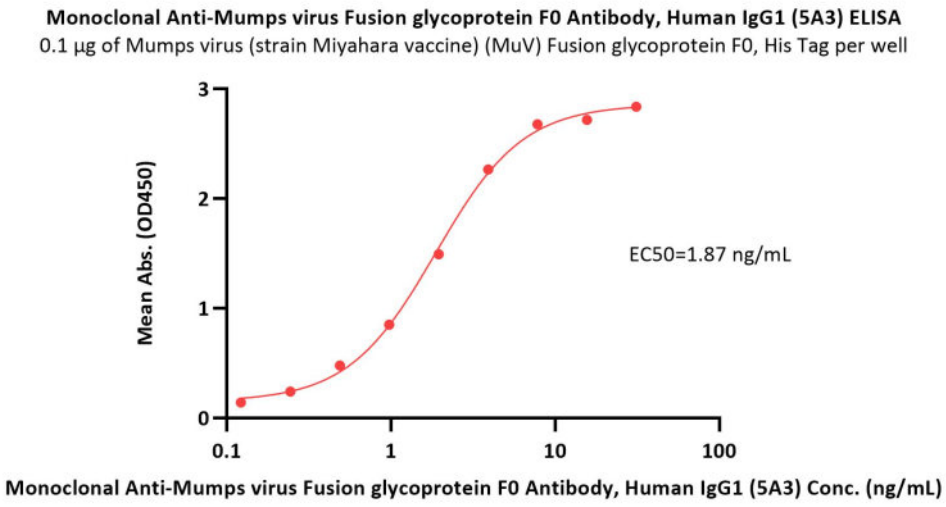
Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (5A3) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



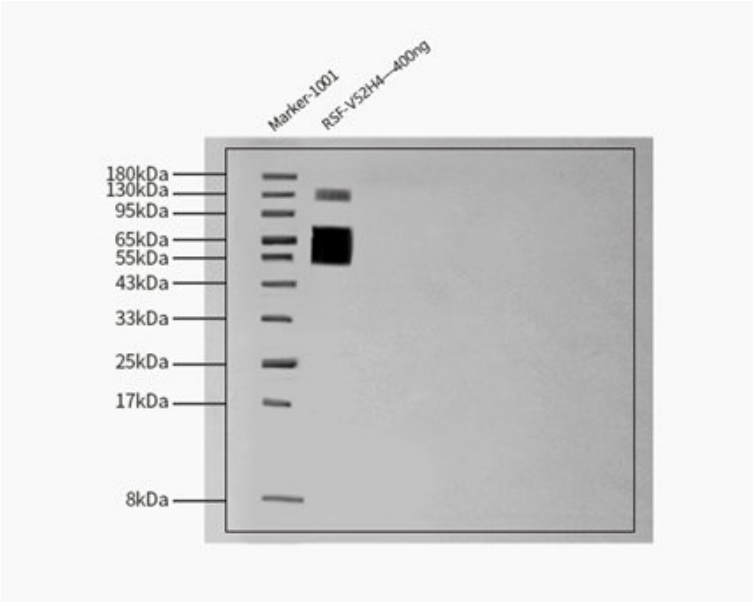
The purity of Monoclonal Anti-Mumps virus Fusion glycoprotein F0 Antibody, Human IgG1 (5A3) (Cat. No. RSF-MY2092) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.

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 (5A3) (Cat. No. RSF-MY2092) with a linear range of 0.1-4 ng/mL (QC tested).

Western Blot



Detection of Monoclonal Anti-Mumps virus Fusion glycoprotein F0 antibody-5A3, Human IgG1 | Human Kappa ,HEK by Western Blot. Monoclonal Anti-Mumps virus Fusion glycoprotein F0 antibody-5A3, Human IgG1 | Human Kappa,HEK at 0.02ug/ml dilution + Mumps virus (strain Miyahara vaccine) (MuV) Fusion glycoprotein F0, His 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: 53-75 kDa 12% Bis-Tris Protein Gel.

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).