Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10) (MALS verified)

Catalog # VP0-MY321

Source

Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

1D10

Species

Mouse

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Virus

Specificity

This product is a specific antibody specifically reacts with VP0.

Application

Application	Recommended Usage
Western Blot	0.1-10 ug/mL
ELISA	0.05-3.1 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.

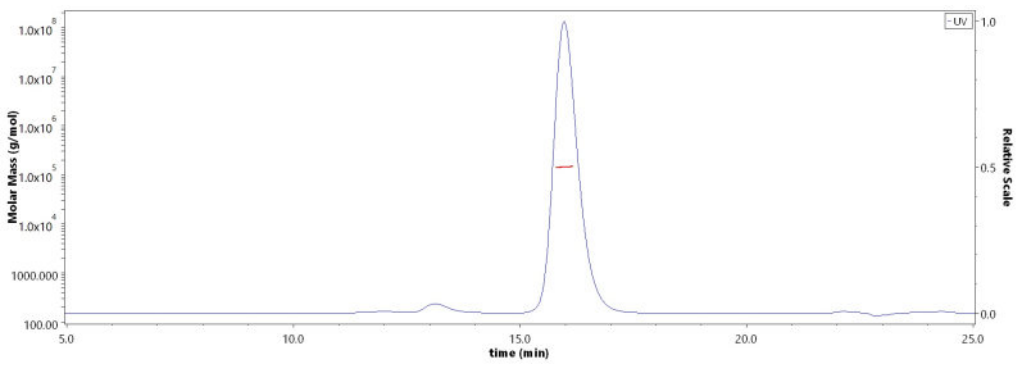
Please avoid repeated freeze-thaw cycles.

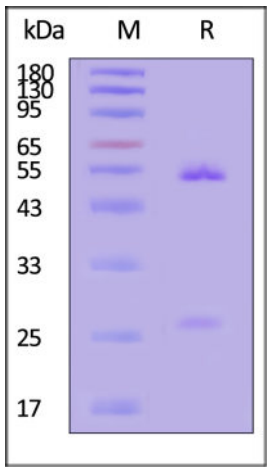
This product is stable after storage at:

- -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

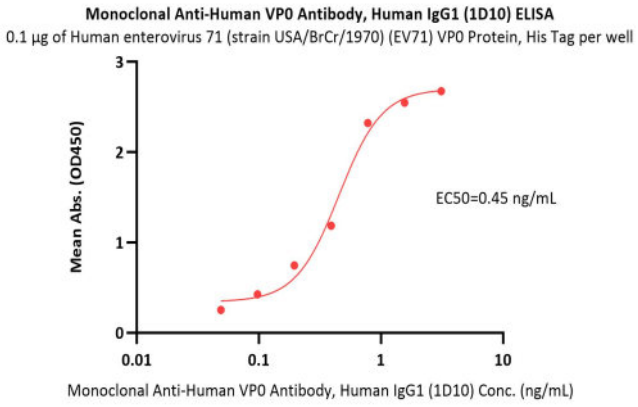




Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

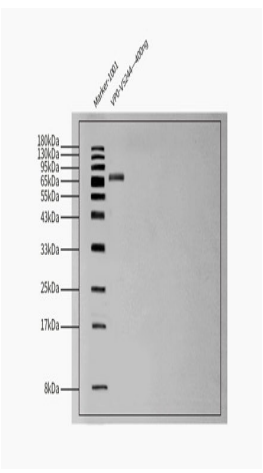
The purity of Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10) (Cat. No. VP0-MY321) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human enterovirus 71 (strain USA/BrCr/1970) (EV71) VP0 Protein, His Tag (Cat. No. VP0-V5244) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10) (Cat. No. VP0-MY321) with a linear range of 0.04-0.8 ng/mL (QC tested).

Western Blot



Detection of Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10), Human IgG1 | Human Kappa, HEK by Western Blot. Monoclonal Anti-Human VP0 Antibody, Human IgG1 (1D10), Human IgG1 | Human Kappa, HEK at 0.1ug/ml dilution + Human enterovirus 71 (strain USA/BrCr/1970) (EV71) VP0 Protein, 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: 65 kDa 12% Bis-Tris Protein Gel.

Background

EV71, full name enterovirus 71, is a kind of human enterovirus, one of the main pathogens of infantile hand, foot and mouth disease, and can also cause herpangina and other diseases. In recent years, EV71 infection was the main cause of severe cases and deaths of HFMD reported in China. After maturation, capsid protein VP0 was cleaved into garment shell proteins VP4 and VP2. Capsid protein VP2 and VP1 together interact with host cell receptor SCARB2 to provide virion attachment to target host cells.

Clinical and Translational Updates