



**Source**

Monoclonal Anti-Human VP0 Antibody, Human IgG1 (7C7) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

**Clone**

7C7

**Species**

Mouse

**Isotype**

Human IgG1 | Human Kappa

**Conjugate**

Unconjugated

**Antibody Type**

Recombinant Monoclonal

**Reactivity**

Virus

**Immunogen**

Recombinant Human enterovirus 71 (strain USA/BrCr/1970) (EV71) VP0 Protein is expressed from Baculovirus-Insect cells.

**Specificity**

Specifically recognizes Human enterovirus 71 (strain USA/BrCr/1970) (EV71) VP0 Protein.

**Application**

Application	Recommended Usage
ELISA	0.05-3.2 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**

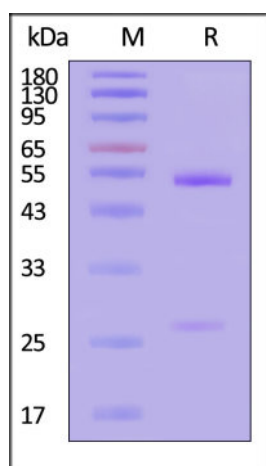
**SEC-MALS**

Discounts, Gifts,  
and more!

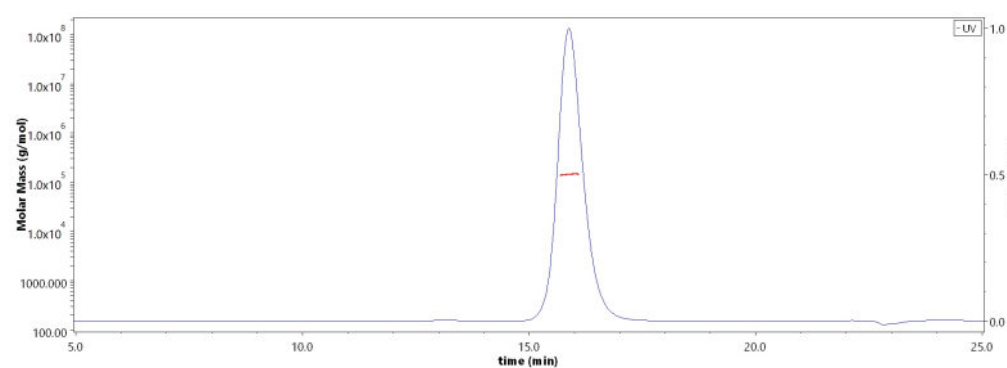


# Monoclonal Anti-Human VP0 Antibody, Human IgG1 (7C7) (MALS verified)

Catalog # VP0-MY320



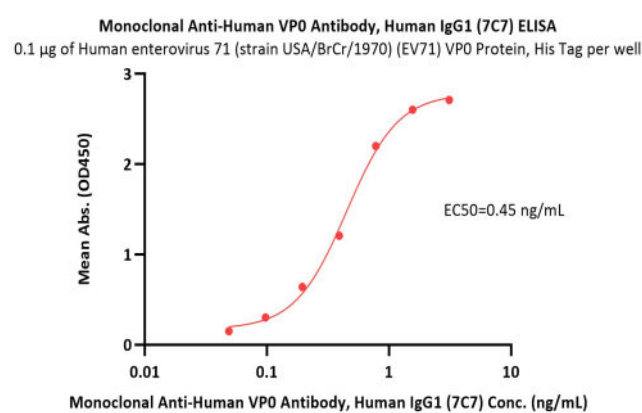
Monoclonal Anti-Human VP0 Antibody, Human IgG1 (7C7) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Monoclonal Anti-Human VP0 Antibody, Human IgG1 (7C7) (Cat. No. VP0-MY320) 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  $\mu$ g/mL (100  $\mu$ L/well) can bind Monoclonal Anti-Human VP0 Antibody, Human IgG1 (7C7) (Cat. No. VP0-MY320) with a linear range of 0.05-0.08 ng/mL (QC tested).

## 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 capsid 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

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