

CMV pp65 (CH12): sc-56976

BACKGROUND

Cytomegalovirus (CMV) is a member of the herpes virus group which includes herpes simplex virus types 1 and 2; Varicella Zoster virus, which causes chicken pox; and Epstein Barr virus, which causes infectious mononucleosis. These viruses remain dormant within the body over a long period. In humans, CMV is known as HCMV or human herpesvirus 5 (HHV-5). HHV-5 causes only a brief mononeucleosis-like malaise in immunocompetent adults, but may cause severe illness or death in immunosuppressed individuals. CMV pp65 is the early-late lower matrix phosphoprotein of CMV that may be relevant to the etiopathogenesis of scleroderma. CMV pp65 is a major constituent of the CMV virion bodies and is abundantly synthesized during lytic infection. In addition, the CMV pp65 protein is a frequent target for the exceptionally strong CMV-specific CD8⁺ T cell response.

REFERENCES

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SOURCE

CMV pp65 (CH12) is a mouse monoclonal antibody raised against CMV.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CMV pp65 (CH12) is recommended for detection of pp65 of CMV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of CMV pp65: 65 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SELECT PRODUCT CITATIONS

- Zydek, M., et al. 2011. General blockade of HCMV immediate early mRNA expression in S/G₂ by a nuclear, Daxx- and PML-independent mechanism. *J. Gen. Virol.* 92: 2757-2769.
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RESEARCH USE

For research use only, not for use in diagnostic procedures.