

CMV UL94 (UI-9R): sc-69855

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 UL94 encodes for a highly conserved late protein. The promoter of CMV UL94 contains a negative regulatory element (NRE) upstream of the RNA start site, a TATA box and a positive regulatory element (PRE) downstream of the RNA start site. Regulation of the CMV UL94 promoter requires the cellular protein p53.

REFERENCES

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RESEARCH USE

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

SOURCE

CMV UL94 (UI-9R) is a mouse monoclonal antibody raised against amino acids 24-40 corresponding to a branched peptide of CMV origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CMV UL94 (UI-9R) is available conjugated to agarose (sc-69855 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-69855 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-69855 PE), fluorescein (sc-69855 FITC), Alexa Fluor® 488 (sc-69855 AF488), Alexa Fluor® 546 (sc-69855 AF546), Alexa Fluor® 594 (sc-69855 AF594) or Alexa Fluor® 647 (sc-69855 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-69855 AF680) or Alexa Fluor® 790 (sc-69855 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

CMV UL94 (UI-9R) is recommended for detection of UL94 protein 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 UL94: 36 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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.