CMV pp72 (6E1): sc-69834

**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 mononucleosis-like malaise in immunocompetent adults, but may cause severe illness or death in immunosuppressed individuals. CMV immediate early (CMV IE) proteins are present during active CMV infection and they activate the extracellular matrix proteins Thrombospondin 1 and Thrombospondin 2. The CMV IE protein CMV pp72 interacts with another CMV IE protein CMV pp86 to stimulate the expression of HLA-G, a non-classical MHC class 1 molecule, during viral infection. The CMV IE promoter is activated by the inflammatory process proteins: tumor necrosis factor (TNFα), interleukin 1β (IL-1β) and interleukin 4 (IL-4).

**REFERENCES**


**SOURCE**

CMV pp72 (6E1) is a mouse monoclonal antibody raised against recombinant partial length pp72 of CMV origin.

**PRODUCT**

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

CMV pp72 (6E1) is available conjugated to agarose (sc-69834 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-69834 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-69834 PE), fluorescein (sc-69834 FITC), Alexa Fluor® 488 (sc-69834 AF488), Alexa Fluor® 546 (sc-69834 AF546), Alexa Fluor® 594 (sc-69834 AF594) or Alexa Fluor® 647 (sc-69834 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-69834 AF680) or Alexa Fluor® 790 (sc-69834 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

CMV pp72 (6E1) is recommended for detection of pp72 of CMV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence [starting dilution 1:50, dilution range 1:50-1:500].

Molecular Weight of CMV pp72: 72 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG HRP: sc-516140 or m-IgG HRP: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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

**PROTOCOLS**

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