CMV pp52 (CH13): sc-69745



The Power to Question

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 pp52 is a viral protein that acts as an accessory subunit of DNA polymerase and aids in DNA polymerization. CMV pp52 shares structural similarity with other DNA processivity factors, such as herpes simplex virus (HSV-1) UL42.

REFERENCES

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- Appleton, B.A., Brooks, J., Loregian, A., Filman, D.J., Coen, D.M. and Hogle, J.M. 2006. Crystal structure of the Cytomegalovirus DNA polymerase subunit UL44 in complex with the C terminus from the catalytic subunit. Differences in structure and function relative to unliganded UL44. J. Biol. Chem. 281: 5224-5232.

SOURCE

CMV pp52 (CH13) is a mouse monoclonal antibody raised against CMV.

PRODUCT

Each vial contains 100 $\mu g \; lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CMV pp52 (CH13) is recommended for detection of pp52 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 pp52: 52 kDa.

SELECT PRODUCT CITATIONS

- Buchkovich, N.J., Maguire, T.G. and Alwine, J.C. 2010. Role of the endoplasmic reticulum chaperone BiP, SUN domain proteins, and dynein in altering nuclear morphology during human Cytomegalovirus infection. J. Virol. 84: 7005-7017.
- Streck, N.T., Carmichael, J. and Buchkovich, N.J. 2018. Nonenvelopment role for the ESCRT-III complex during human Cytomegalovirus infection. J. Virol. 92: e02096-17.

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.

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