

CMV gB (2F12): sc-56972

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 gB (CMV glycoprotein B) is an abundant virion envelope protein that is essential for the infectivity of CMV. CMV gB is also one of the most immunogenic virus-encoded proteins, and a significant fraction of virus neutralizing antibodies are directed at CMV gB.

REFERENCES

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SOURCE

CMV gB (2F12) is a mouse monoclonal antibody raised against infected cell extract from CMV (AD169) infected human fibroblasts.

PRODUCT

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

APPLICATIONS

CMV gB (2F12) is recommended for detection of CMV gB 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 gB full length protein: 160 kDa.

Molecular Weight of CMV gB cleavage products: 55/110 kDa.

SELECT PRODUCT CITATIONS

1. Tang, Q., Roan, N.R. and Yamamura, Y. 2013. Seminal plasma and semen amyloids enhance cytomegalovirus infection in cell culture. *J. Virol.* 87: 12583-12591.
2. Koshizuka, T., Kondo, H., Kato, H. and Takahashi, K. 2021. Human cytomegalovirus UL42 protein inhibits the degradation of glycoprotein B through inhibition of Nedd4 family ubiquitin E3 ligases. *Microbiol. Immunol.* E-published.

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.