# SANTA CRUZ BIOTECHNOLOGY, INC.

# CMV gB (1-M-12): sc-52400



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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- Carraro, E. and Granato, C.F. 2003. Single human cytomegalovirus gB genotype shed in multiple sites at the time of diagnosis in renal transplant recipients. J. Med. Virol. 70: 240-243.
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- Crump, C.M., et al. 2003. Role of PACS-1 in trafficking of human cytomegalovirus glycoprotein B and virus production. J. Virol. 77: 11105-11113.
- Yue, Y., et al. 2003. Antibody responses to rhesus cytomegalovirus glycoprotein B in naturally infected rhesus macaques. J. Gen. Virol. 84: 3371-3379.
- 8. Jarvis, M.A., et al. 2004. Phosphorylation of human cytomegalovirus glycoprotein B (gB) at the acidic cluster casein kinase 2 site (Ser 900) is required for localization of gB to the *trans*-Golgi network and efficient virus replication. J. Virol. 78: 285-293.
- Heineman, T.C., et al. 2004. Conserved cytoplasmi and HCMV gB. Virology 328: 131-141.

# SOURCE

CMV gB (1-M-12) is a mouse monoclonal antibody raised against cells infected with human 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 gB (1-M-12) is recommended for detection of human CMV gB (glycoprotein B) 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 gB full length protein: 160 kDa.

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

# **SELECT PRODUCT CITATIONS**

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### **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.