SANTA CRUZ BIOTECHNOLOGY, INC.

# Varicella Zoster Virus gpl/IV (SG1-1): sc-58073



The Power to Question

# **BACKGROUND**

Varicella Zoster Virus, known as VZV, is associated with two distinct diseases: childhood chickenpox (varicella) and shingles (zoster). Varicella Zoster Virus becomes dormant in sensory ganglia and may reactivate decades later to produce zoster (shingles) or herpes zoster. Varicella Zoster Virus is enveloped in the *trans*-Golgi network (TGN). Glycoprotein I (gl) is required within the TGN for Varicella Zoster Virus envelopment, and for efficient membrane fusion during Varicella Zoster Virus replication. The C-terminal domain of gl is required to segregate viral and cellular proteins in enveloping TGN cisternae. The N-terminus of mature gl is required for glycoprotein E (gE)-gl complex formation by the external domains of Varicella Zoster Virus gE and gl. gE is a major component of the virion envelope and can be found complexed with glycoprotein I on the infected host cell surface. gE expression is activated by IE4 and IE62. Varicella Zoster Virus gl is required for replication of the virus in Vero cells, for efficient replication of the virus in nonhuman cells, and for normal processing of gE.

# **REFERENCES**

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# **SOURCE**

Varicella Zoster Virus gpl/IV (SG1-1) is a mouse monoclonal antibody raised against Varicella Zoster virus, Ellen strain from infected monkey kidney BSC-1 cells.

# **PRODUCT**

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

# **STORAGE**

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

# **APPLICATIONS**

Varicella Zoster Virus gpl/IV (SG1-1) is recommended for detection of fully glycosylated Varicella Zoster Virus glycoprotein I (VZVgE) and Varicella Zoster Virus glycoprotein IV (VZVgI) of Varicella Zoster Virus 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 Varicella Zoster Virus gpl/IV isoforms: 70/58 kDa.

# **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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