



HSV-2 gG (H1206): sc-69805

BACKGROUND

All herpes viruses are morphologically identical: they have a large double stranded DNA genome. The virion consists of an icosahedral nucleocapsid which is surrounded by a lipid bilayer envelope. Between the capsid and the envelope is an amorphous layer of proteins, termed the tegument. A characteristic of all herpesviruses is that, following primary infection, the virus establishes a latent infection in the host and may reactivate at any stage. Reactivation is frequently, but not always, associated with further disease. HSV2 is usually associated with genital lesions. Specifically, glycoprotein G is cleaved to a secreted amino-terminal portion and to a cell-associated, heavily O-glycosylated carboxy-terminal portion that constitutes the mature gG-2. This mature gG-2 is commonly used as a type-specific antigen in the sero-diagnosis of HSV-2 infection.

REFERENCES

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3. Bystrická, M., Petříková, M., Zatovicová, M., Soláriková, L., Kostolanský, F., Mucha, V. and Russ, G. 1997. Monoclonal antibodies to the distinct antigenic sites on glycoproteins C and B and their protective abilities in herpes simplex virus infection. *Acta Virol.* 41: 5-12.
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5. Bystrická, M., Zatovicová, M., Petříková, M., Soláriková, L., Russ, G. and Ziegler, T. 1999. Monoclonal antibodies suitable for type-specific identification of herpes simplex viruses by a rapid culture assay. *Acta Virol.* 43: 399-402.
6. Liljeqvist, J.A., Svennerholm, B. and Bergstrom, T. 2000. Conservation of type-specific B cell epitopes of glycoprotein G in clinical herpes simplex virus type 2 isolates. *J. Clin. Microbiol.* 38: 4517-4522.

SOURCE

HSV-2 gG (H1206) is a mouse monoclonal antibody raised against HSV-2.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of 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

HSV-2 gG (H1206) is recommended for detection of gG, also designated glycoprotein G, of HSV-2 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 HSV-2 gG: 92 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.