

## HSV-2 (12.3.4/1.1.1): sc-57855

### BACKGROUND

Two serotypes of the herpes simplex virus, HSV-1 (also known as type 1 or oral) and HSV-2 (type 2 or genital), can establish lifelong latent infections within sensory ganglia. Periodically, the virus reactivates and can cause recurrent cold sores, encephalitis and eye and genital infections. HSV-2 usually resides in the sacral ganglion at the base of the spine. From there, it reiterates in the genital area. When no symptoms are present, HSV lies dormant in the bodies of the nerve cells. HSV-2 specifically infects the genitals, and the virus can be shed from the skin in the absence of symptoms. In fact, an estimated 50% and 80% of new HSV-2 cases are from asymptomatic viral shedding. 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. 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.

### REFERENCES

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### SOURCE

HSV-2 (12.3.4/1.1.1) is a mouse monoclonal antibody raised against HSV-2 Parker strain.

### PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> (12.3.4)/IgG<sub>2a</sub> (1.1.1) kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HSV-2 (12.3.4/1.1.1) is available conjugated to agarose (sc-57855 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-57855 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-57855 PE), fluorescein (sc-57855 FITC), Alexa Fluor® 488 (sc-57855 AF488), Alexa Fluor® 546 (sc-57855 AF546), Alexa Fluor® 594 (sc-57855 AF594) or Alexa Fluor® 647 (sc-57855 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-57855 AF680) or Alexa Fluor® 790 (sc-57855 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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### APPLICATIONS

HSV-2 (12.3.4/1.1.1) is recommended for detection of HSV-2 by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with tissue culture isolates of Respiratory Syncytial Virus, Influenza A virus, Influenza B virus, Parainfluenza virus type 1, 2, 3 and 4b, Adenovirus, HSV-1, Varicella Zoster Virus, Mumps virus and Measles virus.

Molecular Weight of HSV-2: 140 kDa.

### RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

### 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](http://www.scbt.com) for detailed protocols and support products.