



HSV-1 gC Envelope Protein (5E330): sc-71281

BACKGROUND

Herpes simplex virus 1 (HSV-1) is a member of the *Herpesviridae* family of DNA viruses that have relatively large double-stranded, linear genomes within an icosahedral capsid which is wrapped in a lipid bilayer envelope. HSV-1 causes painful, watery blisters in the skin and/or mucous membranes of infected individuals. The disease is contagious, particularly during an outbreak, and is transmitted by direct contact. When not symptomatic, HSV-1 lies dormant in the bodies of the nerve cells, replicating within the axons towards the skin. HSV-1 glycoprotein C (HSV-1 gC) is an immune evasion molecule that binds to and inhibits the complement component C3b, thereby protecting the virus from complement-mediated neutralization. HSV-1 gC also enhances coagulation Factor VIIa activity on the virus, which activates Factor X.

REFERENCES

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SOURCE

HSV-1 gC Envelope Protein (5E330) is a mouse monoclonal antibody raised against Herpes Virus.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 mL PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HSV-1 gC Envelope Protein (5E330) is recommended for detection of glycoprotein C envelope protein of 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).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.