HIV-2 gp36 (1.B.395): sc-71253



The Power to Question

BACKGROUND

Human immunodeficiency virus type 2 (HIV2), orginally isolated from patients in West Africa, is the dominant form of HIV in West Africa capable of causing the acquired immunodeficiency syndrome (AIDS). HIV2 is closely related to simian immunodeficiency viruses (SIV). HIV1 and HIV2 share similarity in their genomes, transmission, clinical features, immunological effects and in their action of binding to the same CD4 cellular receptor, but there are significant differences in the amino acid and nucleotide sequences of HIV1 and HIV2, especially within their envelope genes and proteins. Additionally, HIV2 may have a longer incubation period and may be less pathogenic than HIV1. HIV2 gp36 is a transmembrane protein located in the envelope of the virus specific to HIV2 that binds to the putative cellular receptor proteins P45 and P62.

REFERENCES

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SOURCE

HIV-2 gp36 (1.B.395) is a mouse monoclonal antibody raised against a recombinant fragment HIV-2 gp36 corresponding to amino acids 390-702 of gp36 of HIV-2 origin.

PRODUCT

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

APPLICATIONS

HIV-2 gp36 (1.B.395) is recommended for detection of HIV-2 gp36 envelope glycoprotein of HIV-2 origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Molecular Weight of HIV-2 gp36: 36 kDa.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

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.

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