

Dengue Virus (D1-11): sc-65659

BACKGROUND

Dengue Virus, a member of the genus flavivirus and family flaviviridae, causes Dengue fever, the acute febrile disease found in the tropics. This infectious disease is characterized by a sudden onset of fever with severe headache, muscle and joint pains, and rashes, and lasts about six to seven days. Dengue Virus is transmitted to humans via mosquitos. The Dengue Virus genome is a single-stranded positive-sense RNA that encodes three structural proteins (capsid, membrane and envelope) and seven nonstructural proteins (NS1, NS2A, NS2B, NS3, NS4A, NS4B and NS5). Four serotypes of the Dengue Virus exist: Dengue Virus 1, 2, 3 and 4. Dengue Virus 1 represents a unique strain that first appeared in 1987.

REFERENCES

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- Hwang, K.P., et al. 2003. Molecular epidemiological study of Dengue Virus type 1 in Taiwan. *J. Med. Virol.* 70: 404-409.

SOURCE

Dengue Virus (D1-11) is a mouse monoclonal antibody raised against Dengue Virus serotypes 1, 2, 3 and 4.

PRODUCT

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

APPLICATIONS

Dengue Virus (D1-11) is recommended for detection of Dengue Virus 1, 2, 3 and 4 of Dengue Virus 1, 2, 3, and 4 origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Dengue Virus: 61 kDa.

STORAGE

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

SELECT PRODUCT CITATIONS

- Liu, M., et al. 2008. Different binding characteristics of Dengue-2 Virus to midgut of *Aedes albopictus* (Diptera: Culicidae) and *Culex quinquefasciatus* (Diptera: Culicidae). *Appl. Entomol. Zool.* 43: 49-55.
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- Zheng, Z., et al. 2020. Establishment of murine infection models with biological clones of Dengue Viruses derived from a single clinical viral isolate. *Virol. Sin.* 35: 626-636.

RESEARCH USE

For research use only, not for use in diagnostic procedures.