



# Dengue Virus 4 (9.F.22): sc-57701

## 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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## SOURCE

Dengue Virus 4 (9.F.22) is a mouse monoclonal antibody raised against Dengue Virus 3, affinity purified (H241).

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Dengue Virus 4 (9.F.22) is recommended for detection of Dengue Virus 4 by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with Dengue Virus 1, 2 or 3.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) 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](http://www.scbt.com) or our catalog for detailed protocols and support products.