



Hep C NS4 (202): sc-52808

BACKGROUND

The Hep C (Hepatitis C) is a small, enveloped, single-stranded, positive sense RNA virus belonging to the family *Flaviviridae*. Transmission of the virus occurs when blood from an infected individual enters the body of an uninfected individual. Hep C primarily replicates within hepatocytes in the liver, and circulating Hep C particles bind to receptors on the surface and enter these cells. Hep C replicates quickly, producing approximately one trillion particles each day in infected individuals. Hep C RNA polymerase has no proofreading function, so the virus has an exceptionally high mutation rate which may help it elude the host's immune system. Hep C infection results in chronic infections, liver cirrhosis and hepatocellular carcinoma in most people. Hep C NS3 (nonstructural protein 3) has both protease and helicase activities and is essential for Hep C replication and proliferation. Hep C NS4 (nonstructural protein 4) augments the proteolytic activity of Hep C NS3 through protein-protein interaction.

REFERENCES

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STORAGE

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

SOURCE

Hep C NS4 (202) is a mouse monoclonal antibody raised against a chimeric polyprotein corresponding to 555 amino acids within the internal region of Hep C.

PRODUCT

Each vial contains 100 µg IgA in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Hep C NS4 (202) is recommended for detection of an epitope corresponding to amino acids 1689-1735 of the NS4 region of Hep C origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with core, Envelope Protein M (EPM) or NS3 regions.

Molecular Weight of Hep C NS4A: 8 kDa.

Molecular Weight of Hep C NS4B: 8 kDa.

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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.