Hep C (Hepatitis C), the major causative agent of chronic and sporadic non-A, non-B hepatitis worldwide, Hep G, which is closely related to Hep C, are members of the Flavivirus genus of the Flaviviridae family. Nonstructural (NS) proteins of Hep C play major roles in viral replication and the pathogenesis of liver diseases. Hep C NS, including NSSA, form a large multiprotein replication complex, which directs the replication of the Hep C genome. Hep C NS5a nonstructural protein of Hep C has been shown to inhibit the cellular interferon (IFN)-induced protein kinase R (PKR). Hep C NS5b is an RNA-dependent RNA polymerase (RdRp) which plays an essential role in viral RNA replication. Hep C NS3 contains protease and RNA helicase activities, both of which are likely to be essential for Hep C propagation. The Hep G NS3 protease is responsible for the cleavage of the Hep G polypeptide at four different locations.

REFERENCES


SOURCE

Hep G NS3 (vK-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Hep G NS3.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
Blocking peptide available for competition studies, sc-17536 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Hep G NS3 (vK-18) is recommended for detection of NS3 region of Hep G origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:200-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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.

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.