Hep B sAg (1023): sc-53299

BACKGROUND

Hep B (Hepatitis B) virus is a member the hepadnavirus family that causes an inflammation of the liver, vomiting, jaundice and, sometimes, death. Hep B infection is associated with a 100-fold increased risk of hepatocellular carcinoma and currently infects over 250 million people worldwide. Hep B is one of the small number of known non-retroviral viruses that replicate their genome using reverse transcription. Hep B has a partially double stranded 3.2 kilobase DNA genome which contains four open reading frames, one of which encodes a 154 amino acid protein called the HBx protein. Hep B sAg (Hep B surface antigen) is a protein antigen produced by the Hep B virus. When in the blood, Hep B sAg is one of the earliest markers of infection with Hep B, appearing even before symptoms occur.

REFERENCES


SOURCE

Hep B sAg (1023) is a mouse monoclonal antibody raised against recombinant Hep B sAg.

PRODUCT

Each vial contains 200 µg IgG; kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Hep B sAg (1023) is available conjugated to agarose (sc-53299 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53299 HRP), 200 µg/ml, for WB, (H)P and ELISA; to either phycoerythrin (sc-53299 PE), fluorescein (sc-53299 FITC), Alexa Fluor® 488 (sc-53299 AF488), Alexa Fluor® 546 (sc-53299 AF546), Alexa Fluor® 594 (sc-53299 AF594) or Alexa Fluor® 647 (sc-53299 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-53299 AF680) or Alexa Fluor® 790 (sc-53299 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Hep B sAg (1023) is recommended for detection of surface antigen of Hep B origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Molecular Weight of Hep B sAg: 28 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG X- HRPO: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

![Hep B sAg](image)

Hep B sAg (1023): sc-53299. Western blot analysis of recombinant hepatitis B surface antigen.

SELECT PRODUCT CITATIONS


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 for detailed protocols and support products.

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