**BACKGROUND**

Hep B (hepatitis B) virus is a member of a member of the hepadnavirus family that causes an inflammation of the liver, vomiting, jaundice and, sometimes, death. Hep B is one of the small number of known non-retroviral viruses that replicate their genome using reverse transcription. The three major antigens that comprise the Hep B virus include: surface antigen (Hep B sAg, preS1/ preS2), an envelope glycoprotein found as membranous aggregates in the sera of individuals infected with Hep B; e antigen (Hep B eAg), which is typically associated with much higher rates of viral replication; and core antigen (Hep B cAg), which encloses the viral genome and makes up the assembled and unassembled variants of the capsid protein. Hep B cAg and Hep B eAg are used primarily in Hep B diagnosis, whereas Hep B sAg is used for Hep B prevention in vaccines. Hep B viral antigens are primarily expressed in liver.

**REFERENCES**


**SOURCE**

Hep B preS2 (S 26) is a mouse monoclonal antibody raised against purified Hep B sAg isolated from a pool of sera of human origin.

**PRODUCT**

Each vial contains 200 μg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Hep B preS2 (S 26) is available conjugated to agarose (sc-23944 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-23944 HRP), 200 μg/ml, for WB, (HICP) and ELISA; to either phycoerythrin (sc-23944 PE), fluorescein (sc-23944 FITC), Alexa Fluor® 488 (sc-23944 AF488), Alexa Fluor® 546 (sc-23944 AF546), Alexa Fluor® 594 (sc-23944 AF594) or Alexa Fluor® 647 (sc-23944 AF647), 200 μg/ml, for WB (RGB), IF, HICP and FCM; and to either Alexa Fluor® 680 (sc-23944 AF680) or Alexa Fluor® 790 (sc-23944 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Hep B preS2 (S 26) is recommended for detection of an epitope corresponding to amino acids 132-137 of the preS2 region of Hep B origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1:2 μg per 100-500 μg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μg per 1 x 10^6 cells).

Molecular Weight of Hep B preS2: 30 kDa.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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