**BACKGROUND**

Hep B (hepatitis B) virus is 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. Three major antigens make up different parts of the Hep B virus (HBV). These three include: surface antigen (Hep B sAg, preS1/preS2), an envelope glycoprotein found as membraneous aggregates in the sera of individuals infected with HBV; 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 HBV diagnosis, whereas Hep B sAg is used for HBV prevention in vaccines. Hep B viral antigens are primarily expressed in liver.

**REFERENCES**


**SOURCE**

Hep B preS1 (AP1) is a mouse monoclonal antibody raised against Hep B preS1.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Hep B preS1 (AP1) is available conjugated to agarose (sc-57761 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-57761 HRP), 200 µg/ml, for WB, HRP and ELISA; to either phycoerythrin (sc-57761 PE), fluorescein (sc-57761 FITC), Alexa Fluor® 488 (sc-57761 AF488), Alexa Fluor® 546 (sc-57761 AF546), Alexa Fluor® 594 (sc-57761 AF594) or Alexa Fluor® 647 (sc-57761 AF647), 200 µg/ml, for WB (RGB), IF, IFP and FCM; and to either Alexa Fluor® 680 (sc-57761 AF680) or Alexa Fluor® 790 (sc-57761 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Hep B preS1 (AP1) is recommended for detection of preS1 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500). Molecular Weight of Hep B preS1: 13 kDa.

**RECOMMENDED SUPPORT REAGENTS**

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

**DATA**

Hep B preS1 (AP1): sc-57761. Western blot analysis of recombinant Hep B preS1.

**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.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.