

Hep B sAg (3E7): sc-57785

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

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RESEARCH USE

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

SOURCE

Hep B sAg (3E7) is a mouse monoclonal antibody raised against subtype AYW3 of purified Hep B sAg.

PRODUCT

Each vial contains 250 µl culture supernatant containing IgG₁ with < 0.1% sodium azide.

APPLICATIONS

Hep B sAg (3E7) is recommended for detection of the "a" determinant present on subtypes ayw1, ayw2, ayw3, ayw4, ayr, adw2, adw4, and adr of surface antigen of Hep B origin by immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200) and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200).

Molecular Weight of Hep B sAg: 28 kDa.

SELECT PRODUCT CITATIONS

- Li, X. and Ni, R. 2016. Breaking hepatitis B virus tolerance and inducing protective immunity based on mimicking T cell-independent antigen. *Viral Immunol.* 29: 502-509.
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STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



See **Hep B sAg (1023): sc-53299** for Hep B sAg antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.