

Hep B cAg (5B31): sc-71236

BACKGROUND

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. Hepatitis 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 hepatitis B virus (HBV): surface antigen (HBsAg), an envelope glycoprotein found as membranous aggregates in the sera of individuals infected with HBV; e antigen (HBeAg), which is typically associated with much higher rates of viral replication; and core antigen (HBcAg), which encloses the viral genome and makes up the assembled and unassembled variants of the capsid protein. HBcAg and HBeAg are used primarily in HBV diagnosis, whereas HBsAg is used for HBV prevention in vaccines. Hepatitis B viral antigens are primarily expressed in liver.

REFERENCES

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SOURCE

Hep B cAg (5B31) is a mouse monoclonal antibody raised against a recombinant fragment, corresponding to amino acids 138-145 of Hepatitis B virus core antigen.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Hep B cAg (5B31) is available conjugated fluorescein (sc-71236 FITC, 100 tests in 2 ml), for IF, IHC(P) and FCM.

APPLICATIONS

Hep B cAg (5B31) is recommended for detection of core antigen (ayw) of Hep B virus of Hepatitis B virus 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 10⁶ cells).

Molecular Weight of Hep B cAg: 21 kDa.

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.



See **Hep B cAg (C1-5): sc-23945** for Hep B cAg antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.