

Anti-HBsAg [5C3] Standard Size Ab00769-47.0

This chimeric human antibody was made using the variable domain sequences of the original mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgA2, Kappa

Clone Number: 5C3

Alternative Name(s) of Target: HBV surface antigen; Major surface protein

UniProt Accession Number of Target Protein: Q773S4

Published Application(s): RIA

Published Species Reactivity: Hepatitis B Virus

Immunogen: This antibody was prepared by immunizing BALB/c mice with a highly purified preparation of HBsAg.

Specificity: This antibody is specific for hepatitis B virus surface antigen, a common antigen on the surface of HBV-infected hepatocytes and the outer coat of the intact virus. It recognizes all known subtypes of HBsAg, and has a very high affinity constant for its HBsAg determinant. This antibody does not cross-react with 2C6 and 5D3, two other anti-HBsAg Mabs, as each recognizes a distinct and separate determinant on HBsAg.

Application Notes: This antibody, when radio-labelled with iodine-125, has been used to develop highly sensitive solid-phase radioimmunoassays for the detection of HBsAg at subnanogram levels in human serum (Shafritz, 1982). Consequently, this antibody may be a useful reagent in the immunodiagnosis of hepatitis B infection.

Antibody First Published in: Wands et al. High affinity monoclonal antibodies to hepatitis B surface antigen (HBsAg) produced by somatic cell hybrids Gastroenterology. 1981 Feb;80(2):225-32. [PMID:6161061](#)

Note on publication: Describes the original generation of this antibody, along with a panel of other anti-HBsAg Mabs.

Product Form

Size: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.