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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HBV pre-S1 protein [MA18/7] Standard Size Ab03888-10.0

Isotype and Format: Human IgG1, Kappa

Clone Number: MA18/7

Alternative Name(s) of Target: PreS1; Large envelope protein; L glycoprotein; L-HBsAg; Large S protein; Large surface protein; Major surface antigen

UniProt Accession Number of Target Protein: Q67886

Published Application(s): functional assay, inhibit, neutralize, WB, ELISA

Published Species Reactivity: Hepatitis B virus (HBV)

Immunogen: The original antibody was generated by immunizing mice with HBsAg subtype ayw.

Specificity: This antibody binds a clearly defined epitope 'DPAF' (amino acids 31-34) of the pre-S1 region of the hepatitis B virus. Hepatitis B is a potentially life-threatening liver infection caused by the hepatitis B virus (HBV). It can cause chronic infection and puts people at high risk of death from cirrhosis and liver cancer.

Application Notes: This antibody can be used for the identification of HBV pre-S2 protein using immunoblot and western blot (PMID: 6492255). The original mouse IgG1 version of this antibody was reported to bind pre-S1 protein of HBV with a binding affinity of $K_d = 0.24$ nM (PMID: 10509818). Immunoblot analysis revealed that the tetrapeptide Asp-Pro-Ala-Phe (DPAF), located at the position preS(31-34) and conserved in all known HBV genomes, is sufficient to bind MA18/7 antibody (PMID: 1279369). It was reported that MA18/7 inhibits the binding of natural HBV to hepatocyte membranes (PMID: 7964611). This antibody has shown to neutralize infectivity of HBV for primary human hepatocytes, also blocked infection of primary *Tupaia belangeri* hepatocytes (PMID: 12915565).

Antibody First Published in: Heermann et al. Large surface proteins of hepatitis B virus containing the pre-s sequence. *J Virol.* 1984 Nov;52(2):396-402. [PMID:6492255](#)

Note on publication: Describes the identification and characterization of large surface protein of HBV using antibodies.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

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.