



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-HBV pre-S1 protein [MA18/7] Standard Size Ab03888-1.1

**Isotype and Format:** Mouse 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.