



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-HBsAg [F124 scFv] Bulk Size Ab00768-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** F124 scFv

**Alternative Name(s) of Target:** Hepatitis B surface antigen; Major surface protein

**UniProt Accession Number of Target Protein:** Q773S4

**Published Application(s):** ELISA

**Published Species Reactivity:** Hepatitis B Virus

**Immunogen:** This scFv was generated from the anti-HBsAg monoclonal antibody F124, which was raised by immunization of BALB/c mice with HBV particles, serotype ay, purified from the plasma of a chronic carrier. VH and VL cDNA isolated from the F124 hybridoma were joined by a two step fusion PCR using an oligonucleotide coding for the (Gly4Ser)<sub>3</sub> linker, and this construct was introduced into E.coli.

**Specificity:** This scFv is specific for the preS2 region of the surface antigen of hepatitis B virus. Specifically, this scFv recognizes an epitope localised at the N-terminal part of the M protein and containing the preS2 residue 126.

**Application Notes:** In ELISA analysis, this antibody has been shown to inhibit the binding of both the F124 Fab and IgG to r-HBsAg in a dose-dependent manner (Passafiume, 1998). Size-exclusion HPLC indicates that, while the scFv monomer shows no tendency to aggregate at low concentrations, equilibrium is achieved at a monomer/dimer ratio of 3:1 at high protein concentrations.

**Antibody First Published in:** Passafiume et al. Sequence analysis of a monoclonal antibody specific for the preS2 region of hepatitis B surface antigen, and the cloning, expression and characterisation of its single-chain Fv construction FEBS Letters, 1998, Vol.441(3), pp.407-412 [PMID:9891981](#)

**Note on publication:** Describes the original generation of this scFv, and preliminary attempts to characterise its specificity and functionality.

### Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.