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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-HBsAg [F124 scFv] Standard Size Ab00768-1.1

Isotype and Format: Mouse IgG1, 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)₃ 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: 200 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.