

# Hepatitis B Virus Surface Antigen antibody FITC Conjugated

Catalog No: #C92922F

Package Size: #C92922F 100ul

## Description

|                       |                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------|
| Product Name          | Hepatitis B Virus Surface Antigen antibody FITC Conjugated                           |
| Host Species          | Rabbit                                                                               |
| Clonality             | Polyclonal                                                                           |
| Purification          | The antibody was affinity purified by Protein A.                                     |
| Applications          | ICC, IF                                                                              |
| Immunogen Type        | Peptide                                                                              |
| Immunogen Description | peptide derived from HBVE1 Hepatitis B Virus Surface Antigen                         |
| Conjugates            | FITC                                                                                 |
| Target Name           | Hepatitis B Virus Surface Antigen                                                    |
| Calculated MW         | 44kDa                                                                                |
| Concentration         | 1mg/ml                                                                               |
| Formulation           | Liquid in 0.01M TBS (pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.          |
| Storage               | Store at +4°C for short term. Store at -20°C for long term. Avoid freeze/thaw cycle. |

## Application Details

ICC 1:50-200, IF 1:50-200

## Background

The large envelope protein exists in two topological conformations, one which is termed 'external' or Le-HBsAg and the other 'internal' or Li-HBsAg. In its external conformation the protein attaches the virus to cell receptors and thereby initiating infection. This interaction determines the species specificity and liver tropism. This attachment induces virion internalization predominantly through caveolin-mediated endocytosis. The large envelope protein also assumes fusion between virion membrane and endosomal membrane (Probable). In its internal conformation the protein plays a role in virion morphogenesis and mediates the contact with the nucleocapsid like a matrix protein. The middle envelope protein plays an important role in the budding of the virion. It is involved in the induction of budding in a nucleocapsid independent way. In this process the majority of envelope proteins bud to form subviral lipoprotein particles of 22 nm of diameter that do not contain a nucleocapsid.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.