ARG65663
anti-HBV surface antigen / HBsAg antibody [SQab1504]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab1504] recognizes Hepatitis B surface antigen / HBs Ag
Tested Reactivity	HBV
Tested Application	ELISA, ICC/IF, IHC-P
Specificity	This antibody could recognize clinical samples including HBsAg in serum, plasma, and tissue specimens. Do not react with normal tissues.
Host	Mouse
Clonality	Monoclonal
Clone	SQab1504
Isotype	IgG2a
Target Name	HBV surface antigen / HBsAg
Species	HBV
Immunogen	Recombinant HbsAg protein (Subtype AD/AY)
Conjugation	Un-conjugated
Alternate Names	large S protein; pre-S1/pre-S2/S; L glycoprotein; L-HBsAG; LHB; large surface protein; major surface antigen

Application Instructions

Application table

Application	Dilution
ELISA	1:5000-1:10000
ICC/IF	1:250-1:1000
IHC-P	1:200-1:500

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

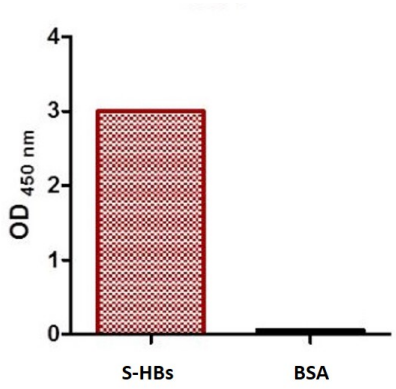
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4) and 0.01% Thimerosal.
Preservative	0.01% Thimerosal
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

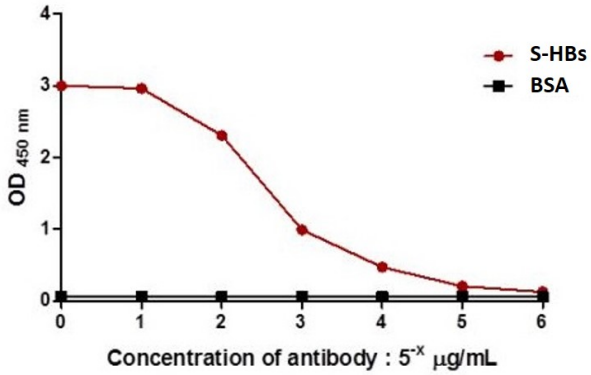
Database links	GeneID: 944569 HBV
Gene Symbol	S
Gene Full Name	L-HBsAG
Background	Hepatitis B virus (HBV) is a hepadnavirus which has a circular genome composed of partially double-stranded DNA. The HBV surface protein antigens (HBsAg) are comprised of large (LHBs), middle (MHBs) and small (SHBs, also called major) protein. LHBs contains preS1, prS2, and small protein. MHBs does not include preS1 protein and SHBs dose not include preS1 and preS2 proteins. HbsAg and its antibodies have been developed as biomarkers to monitor infection stage. Expression of preS1 and preS2 in tissue or serum are also important to reveal the mechanism of HBV infection.
Function	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. [UniProt]
Highlight	Related products: HBsAg antibodies;
Research Area	Cancer antibody; Microbiology and Infectious Disease antibody

Images



ARG65663 anti-HBV surface antigen / HBsAg antibody [SQab1504] ELISA image

Direct ELISA: Direct ELISA data shows that ARG65663 anti-HBV surface antigen / HBsAg antibody [SQab1504] reacts with S-HBs but not BSA.



ARG65663 anti-HBV surface antigen / HBsAg antibody [SQab1504] ELISA image

Direct ELISA: S-HBs or BSA coated plates stained with ARG65663 anti-HBV surface antigen / HBsAg antibody [SQab1504] at various dilutions. Data shows that ARG65663 reacts with S-HBs but not BSA.