Elabscience®

Human HBsAg Antibody Pair Set

Catalog No.	E-KAB-0031	Applications	ELISA
Synonyms	Australia antigen		

Kit components & Storage

Title	Specifications	Storage
Human HBsAg Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Human HBsAg Detection Antibody	1 vial, 50 μL	Store at -20°C for one year.
(Biotin)		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0031)		
		Human HBsAg Capture Antibody	Human HBsAg Detection Antibody (Biotin)	
Immunogen	Immunogen	Native Protein	Native Protein	
Information	Swissprot	/		
Product details	Reactivity	Human	Human	
	Host	Mouse	Goat	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A	Protein A	
	Specificity	Detects Human HBsAg in ELISAs.		

For Research Use Only

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Applications

Human HBsAg Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Human HBsAg Capture Antibody	
Capture			
ELISA Detection	1:1000-1:10000	Human HBsAg Detection Antibody (Biotin)	Optical Density
			0.01 0.1 1 1 10 100 Human HBsAg concentration(ng/mL)

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

The hepatitis B virus is an important cause of acute and chronic liver disease. It is also the most common form of parenterally transmitted viral hepatitis. The HBV surface protein antigens (HBsAg) are comprised of three carboxyl co terminal HBs proteins termed large (LHBs), middle (MHBs) and small (SHBs, also called major) protein. LHBs and MHBs also share the highly hydrophobic, repetitive, membrane spanning S domain. In addition, MHBs has a 55 amino acid region called preS2. The virus is estimated to affect some 350 million people worldwide. Immunization against hepatitis B is an important component of preventative medicine and is offered to all children in approximately 30 countries. Hepatitis B virus (HBV) belongs to the Hepadnaviridae family and infection with HBV is usually more serious than infection with hepatitis A virus. In some individuals the infection is not cleared and followed by persistent intracellular viral carriage that can lead to the development of hepatocelular carcinomas. There are currently 400 million HBV carriers worldwide making HBV one of the most common human pathogens.