

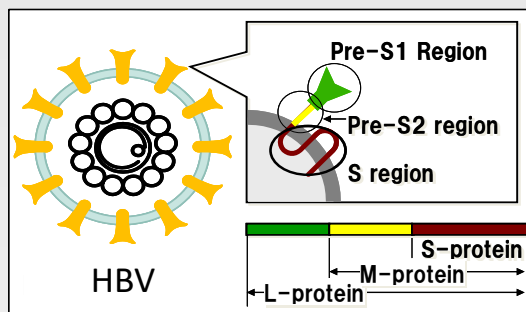
# Anti-HBs Pre-S1 Antibody Quantitative ELISA Kit

## Kits to determine Pre-S1 antibody to genotype A, D, C and D

The whole length of HBsAg L protein contains S, Pre-S1, and Pre-S2 regions. By immunization with L protein-containing HBsAg particle produces antibodies to each region. The kit quantitatively determines antibody against HBsAg Pre-S1 region. Kits to determine antibodies against 4 genotypes (A, B, C and D) are available.

### Features

1. Quantitatively determine antibody against Pre-S1
2. Possible to determine various animals incl. human (kit component differ depending animal species)
3. possible to differentiate genotypes (kit component differ depending animal species)
4. Standard antibody\* enables reproducible results  
\*: included in kit for mouse serum



Kit image (Components may be changed without notice.)

### 【Components】

All components required for antibody determination are equipped (see back sheet)

### 【Products code】

Product#	Product name	content
BCL-AKP1-MA1	Anti-HB Pre-S1 Antibody Quantitative ELISA Kit (mouse, Gt A)	1 kit (96assay)
BCL-AKP1-HA1	Anti-HB Pre-S1 Antibody Quantitative ELISA Kit (human, Gt A)	1 kit (96assay)

The table listed is for genotype A, kits for genotype B, C and D are also available.

Kits for other animal species is available, please ask us.

All kits are make-to-order, needs two weeks by shipment

### 【Related products】

Product code	Product name	content
BCL-SHP-21	HBs S Antigen Quantitative ELISA kit, Rapid-II	1 kit
BCL-S1HP-01	HBs Pre-S1 Antigen Quantitative ELISA Kit, Rapid	1 kit
BCL-S2HP-01	HBs Pre-S2 Antigen Quantitative ELISA Kit, Rapid	1 kit

### 【Produced and distributed by】

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### 【Principle】

The kit uses the principle that the detection of sample antibodies bound to immobilized antigen by HRP-labelled secondary antibody. Due to the principle, secondary antibody is changed depending on the animal species of sample serum. In addition immobilized antigen is different depending on the genotype to measure.

### 【Time required for determination】

- ① binding of sample antibody to immobilized antigen: 60 min
- ② blocking: 60 min
- ③ secondary antibody reaction : 60 min
- ④ chromogenic reaction: 30 min

Total: 210 min\* (time does not include sample preparation, washing, and Abs measurement)

- \*: Quick reaction may be possible by reducing the reaction time from 60 min to 30 min in processes of ① to ③. The sensitivity may be reduced.

### 【kit components】

Pre-coat plate	1 plate
standard antibody (mouse kit only)	1 tube
Blocking solution	1 bottle
HRP conjugated antibody	1 tube
Chromogenic solutions (Substrate A and Substrate B)	2 bottles
Stop solution	1 bottle
Washing buffer(20x conc.)	1 bottle
Manual	1

Components are subject to change without notice

### 【Materials needed but not provided】

- Microplate reader (abs=450 nm)
- Micropipets
- Microtubes
- Plate sealer
- 8 channel multipipet
- Pure water

### 【Experimental example】

Figure below shows dose-response curve using standard antibody

STD		Abs450nm
ID	ng/mL	
STD①	300	2.593
STD②	100	2.184
STD③	30	1.364
STD④	10	0.696
STD⑤	3	0.259
STD⑥	1	0.095
STD⑦	0.3	0.038

