

Anti-HBs S domain (HBsAg) Antibodies (Polyclonal)

Product # : BCL-ABPS-01

The surface antigen of Hepatitis B virus (HBV) is composed of Pre-S1, Pre-S2, and S domains. The longest surface antigen, which has all the three domains, is called L protein, the middle sized antigen which has Pre-S2 and S domains, is called M protein, and the smallest one consisted of S domain is called S protein. S protein is generally also called HBsAg. Pre-S1 domain is known to be the target molecule of HBV receptors expressed on human hepatic cell surface. On the other hand, Pre-S2 domain is reportedly related to HBV invasion into cells and carcinogenesis. Thus, Pre-S1 and Pre-S2 domains are becoming more and more important in HBV research field.

The products are polyclonal antibodies raised in rabbits using S-protein (so-called HBsAg). The antibody is good for western blot or ELISA.

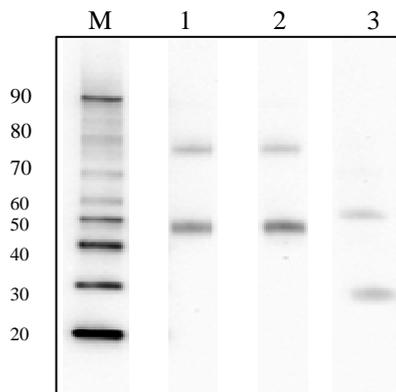
Animal species : Rabbit
 Product form : Liquid (preservative added, The additive is essentially not active in most biochemical experiments)
 content : 100 μ L
 concentration : 1 mg/mL
 immunogen : S-protein particle (HBsAg, subtype: adr)
 Purification : Affinity chromatography using Protein A
 Preservation : 4°C (for long term -20°C , avoid freeze and thaw)
 Application : ELISA, Western
 Recommended concentration i :

0.5 ~ 10 μ g/mL for both ELISA and Western. Experimental examples are shown below.

(Note) : ELISA kit to determine S protein (Product #: BCL-SHP-21) is also available.

Experimental Examples :

1 . Western blot

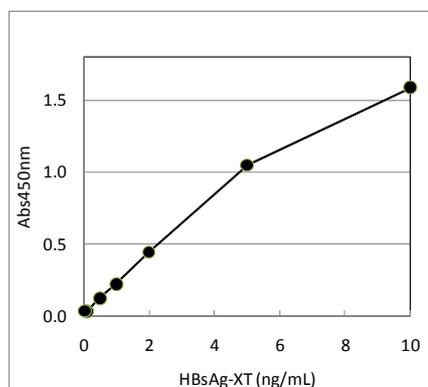


M ; Marker

1. Antibody: anti-Pre-S1 (Code#: BCL-ABP1-01)
Antigen: BNC-L (Code # BCL-AG01)
2. Antibody: anti-Pre-S2 (Code#: BCL-ABP2-01)
Antigen: BNC-L (Code # BCL-AG01)
3. **Antibody: anti-S antigen (Code#: BCL-ABPS-01)**
Antigen: BNC-XT (Code # BCL-AGX02)

Note : Two bands are seen in figures using either HBsAg-L or HBsAg-XT proteins as antigens. The upper band indicates dimer and the lower monomer.

2 . ELISA



ELISA condition

Capture IgG:

anti-S antibody (polyclonal, Code # BCL-ABPS-01) :3 μ g/mL
 Diluted in carbonate buffer.

Blocking:

k-Block-e (Code#: BCL-BKHE-01)

Detection IgG:

anti-S antibody (HRP-labeled): 20 μ g/mL

Antigen

HBsAg XT (Code#:BCL-AGX-02): concentration as indicated

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