

Anti-HBsAg S, Monoclonal Antibodies

Hepatitis B virus (HBV) expresses three types of surface antigens, i.e. S-, M-, and L-protein. L-protein is composed of S-, Pre-S2, and Pre-S1 region. The deletion of Pre-S1 region forms M-protein and further deletion of Pre-S2 region results in S-protein. So called HBsAg is composed of either S-protein alone or a mixture of S- and M-proteins. The Pre-S1 region is known to be the hepatic cell recognition site and to be important in the HBV infection and Pre-S2 is reportedly known to related HBV entry or carcinogenesis.

The present products are monoclonal antibody against S domain. Two monoclonal antibodies are available.

General information

Source : mouse ascitic fluid, monoclonal
 Appearance : liquid form (PBS containing biochemically inactive preservative)
 concentration : 1 mg/mL
 Antigen : HBsAg L-protein-ST type (BCL-AGS-02)
 Purification : affinity by Protein G
 Storage : 4°C (for long term storage at -20°C avoid freeze and saw)
 Usage : ELISA (0.1 to 1 µg/mL), Western blot (0.1 to 1 µg/mL)

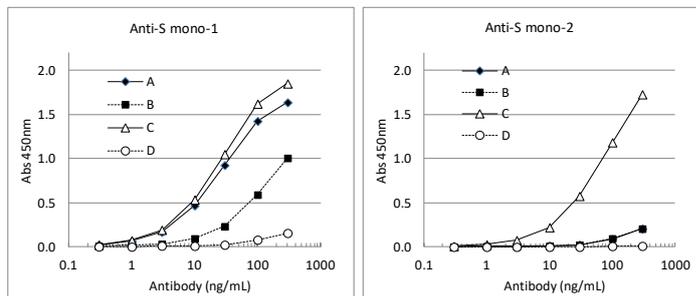
Product variation and product

Product #	Product name	clone	Isotype
BCL-ABMS-01	Anti-HBsAg-S Antibody, Mono-1	65C1	IgG1
BCL-ABMS-02	Anti-HBsAg-S Antibody, Mono-2	85G3	IgG1

Antigen specificity

These antibodies bind only to S domain and not to Pre-S1 or Pre-S2 domains

Genotype specificity

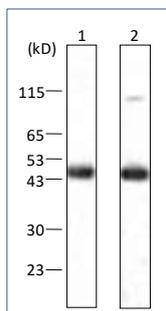


Mono-1 binds to L antigen of genotype A and C, weakly of B, and slightly of D.

Mono-2 is selective to genotype C.

Examples

Western blot



Antigen: HBsAg-Lprotein (Product#: BCL-AGS-02) 10 ng

Primary antibody:

Lane1: Anti-HBs S protein antibody mono-1 (BCL-ABMS-01) at 100 ng/mL

Lane2: Anti-HBs S protein antibody mono-2 (BCL-ABMS-02) at 1 µg/mL

Secondary antibody: Anti-mouse IgG Rabbit (HRP -labeled)

Detection: ECL substrate 2 min exposure