

Monoclonal Anti- HBV-PreS1 (Capture Ab)**Catalog#** BDA1004**Lot #** Check on the product label**Size** 1mg**Isotype** IgG1**Clone #** E6**Host** Mouse**Reactivity**

Human

Product Form Liquid**Purification & Buffer**

Protein A or G purified and supplied in 0.01 M PBS (pH7.4) without preservative.

Purity >95% by HPLC & SDS-PAGE**Concentration** 7 mg/ml**Immunogen**

A synthetic peptide corresponding to the N-terminal of HBV-PreS1.

Specificity It specifically recognize N-terminal epitope of HBV-PreS1, and does not cross react with BSA, HBV-PreS2 and HBV-S antigens.**Recommend Application**

Western Blot

ELISA

Lateral flow

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Matched antibody pairCapture Ab: HBV-PreS1 mAb (clone # E6)
& HBV-PreS1 mAb (clone # D8)

Recommended detection Ab: Goat anti-HBsAg pAb

Note: E6 & D8 mAbs should be combined used as the capture Ab.**Storage Instruction**

Aliquot and store at -20°C for long term (at least one year).

Avoid repeated freeze and thaw cycles.

Background

Hepatitis B virus (HBV), is a species of the genus Orthohepadnavirus, which is likewise a part of the Hepadnaviridae family of viruses. This virus causes the disease hepatitis B which is an infectious inflammatory illness of the liver and affects hominoidea, including humans. There are four known genes encoded by the genome called C, X, P, and S. Gene S is the gene that codes for the surface antigen (HBsAg). And HBsAg gene is one long open reading frame but contains three in frame "start" (ATG) codons that divide the gene into three sections, pre-S1, pre-S2, and S. The double interaction between the HBV capsid and both S and pre-S1 domains may be required for virion morphogenesis.

Reference

1. Hunt, Richard (2007-11-21). "Hepatitis viruses". University of Southern California, Department of Pathology and Microbiology. Retrieved 2008-03-13.
2. Hassan MM, Li D, El-Deeb AS, et al. (October 2008). "Association between hepatitis B virus and pancreatic cancer". J. Clin. Oncol. 26 (28): 4557-62.
3. Francis poisson, Anne severac, Christophe hourieux, Alain goudeau, Philippe roingear. Both Pre-S1 and S Domains of Hepatitis B Virus Envelope Proteins Interact with the Core Particle. Virology. Volume 228, Issue 1, 3 February 1997, Pages 115-120.

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