



Anti-HBV Envelope Antigen Monoclonal antibody (DCABH-20045)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	MAb to HBeAg Monoclonal Antibody to Hepatitis B eAntigen (HBeAg)
Antigen Description	<p>HBeAg is the extracellular form of HBcAg, hence why the presence of both are markers of viral replication, and antibodies to these antigens are markers of a decline in replication. Multiple protein products can be produced from the same DNA sequence. When "ORF Core" and "Pre C" are translated together, the result is "HBeAg".</p> <p>Whereas HBcAg is considered "particulate" and it does not circulate in the blood, however it is readily detected in hepatocytes after biopsy. "HBeAg" is considered "nonparticulate" or "secretory".</p> <p>Both HBeAg and HBcAg are made from the same reading frame, but HBeAg is secreted from cells and accumulates in serum as an immunologically distinct soluble antigen. HBeAg is secreted and found in the serum of patients and serves as a marker of active replication in chronic hepatitis. Although the function of HBeAg is not clearly understood, one study demonstrated that it downregulated Toll-like receptor 2 expression on hepatocytes and monocytes leading to a decrease in cytokine expression. HBeAg is dispensable for replication, as mutant viruses with defects in the pre-C region are both infectious and pathogenic.</p>
Specificity	HBeAg
Target	HBV Envelope Antigen
Immunogen	HBeAg
Isotype	IgG
Source/Host	Mouse
Species Reactivity	HBV

Affinity Constant	1 x 10 ⁻¹¹ L/Mol
Purification	>95% pure. Protein A chromatography
Conjugate	Unconjugated
Applications	ELISA, CLIA, RIA, IHC, WB
Format	Purified, Liquid
Concentration	2.0mg/ml (OD280nm, E0.1% = 1.4)
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	None
Storage	Store at -20°C.

BACKGROUND

Introduction	HBeAg is the extracellular form of HBcAg, hence why the presence of both are markers of viral replication, and antibodies to these antigens are markers of a decline in replication. Multiple protein products can be produced from the same DNA sequence. When
Keywords	Anti-HBV Mab; HBeAg; Hepatitis B Virus E Antigen; Mouse Anti-Hepatitis B 'e' Antigen Monoclonal Antibody; HBV; Hepatitis B Virus; HBV; Hepatitis B Virus; Hepatitis B 'e' Antigen; HBeAg; Hepadnaviridae; Orthohepadnavirus; Hepatitis B virus; HBV; HBe antigen