

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

## PA1300XC OriGene EU

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## **Recombinant Hepatitis B Virus HBE (HBV HBE)**

Alternate names:	HBV External core antigen, HBV Precore protein
Catalog No.:	PA1300XC
Quantity:	1 mg
Concentration:	1.0 mg/ml
Background:	Hepatitis B is one of a few known non-retroviralviruses which employ reverse transcriptionas a part of its replication process. (HIV, a completely unrelated virus, also uses reverse transcription, but it is a retrovirus.) HBV invades the cell by binding to surface receptor and become internalized. The viral core particles then migrate to the hepatocyte nucleus and the partially double-stranded, relaxed circular genomes (RC-DNA) are repaired to form a covalently closed circular DNA (cccDNA), which is the template for viral genomic and sub-genomic RNAs by cellular RNA polymerase II. Of these, the pregenomic RNA (pgRNA is selectively packaged into progeny capsids and is then reverse-transcribed into new RC-DNA. The core can either bud into the endoplasmic reticulum to be enveloped or exported from the cell or recycled back into the genome for conversion to cccDNA.
Species:	Human
Source:	E. coli
Format:	<b>State:</b> Liquid purified protein <b>Purity:</b> >95% pure as determined by 10% PAGE (coomassie staining). <b>Buffer System:</b> 25mM Tris-HCl pH 8.0, 1.5 M Urea and 50% Glycerol
Applications:	ELISA. Western blots. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	The <i>E. Coli</i> derived recombinant protein contains the HBV HBe adw immunodominant region is fused to GST. Purified by proprietary chromatographic technique. <b>Biological Activity:</b> Immunoreactive with sera HBV-infected individuals. <b>Molecular weight:</b> 43.7 kDa
Storage:	The protein can be shipped at 2-8°C. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	<ol> <li>Kanwal F, Gralnek IM, Martin P, Dulai GS, Farid M, Spiegel BM. Treatment alternatives for chronic hepatitis B virus infection: a cost-effectiveness analysis. Ann Intern Med. 2005 May 17;142(10):821-31. PubMed PMID: 15897532.</li> <li>Summaries for patients. Antiviral regimens for chronic hepatitis B virus infection. Ann Intern Med. 2005 May 17;142(10):139. PubMed PMID: 15897528.</li> </ol>

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request.



OG/20130513

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



## PA1300XC: Recombinant Hepatitis B Virus HBE (HBV HBE)

3. Silva PA, Fiaccadori FS, Borges AM, Silva SA, Daher RR, Martins RM, et al. Seroprevalence of hepatitis B virus infection and seroconvertion to anti-HBsAg in laboratory staff in Goiânia, Goiás. Rev Soc Bras Med Trop. 2005 Mar-Apr;38(2):153-6. Epub 2005 Mar 30. PubMed PMID: 15821790.

4. Tangkijvanich P, Mahachai V, Komolmit P, Fongsarun J, Theamboonlers A, Poovorawan Y. Hepatitis B virus genotypes and hepatocellular carcinoma in Thailand. World J Gastroenterol. 2005 Apr 21;11(15):2238-43. PubMed PMID: 15818732.

5. Paul S, Tabassum S, Islam MN. Interferon-gamma (IFN-gamma) response to different hepatitis B virus antigens in hepatitis B virus infection. Bangladesh Med Res Counc Bull. 2004 Aug;30(2):71-7. PubMed PMID: 15813485.

6. Aras C, Ozdamar A, Ergin S, Ozturk R, Midilli K, Karacorlu M, et al. Failure to detect hepatitis B virus in vitreous by polymerase chain reaction. Ophthalmologica. 2005 Mar-Apr;219(2):93-6. PubMed PMID: 15802933.

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request. Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



OG/20130513