abcam

Product datasheet

Anti-Hepatitis B Virus Core Antigen antibody [10E11] ab8639

16 References

Overview

Product name	Anti-Hepatitis B Virus Core Antigen antibody [10E11]
Description	Mouse monoclonal [10E11] to Hepatitis B Virus Core Antigen
Host species	Mouse
Specificity	This antibody reacts with HBV Core Antigen (amino acid residues 1-10). Ab8639 should recognize both the precoreprotein and core protein. Ab8639 was raised against serotype ayw but will work with all other genotypes.
Tested applications	**Suitable for:** ICC/IF, WB, IP, ELISA, IHC-P, IHC-Fr
Species reactivity	**Reacts with:** Hepatitis B virus
Immunogen	Tissue, cells or virus corresponding to Hepatitis B virus Hepatitis B Virus Core Antigen. Purified Denatured Hepatitis B Core Antigen
Epitope	aa positions 1-10
General notes	This product is raised in the same, but denatured, HBcAg protein sequence as **ab8637**, hence have more robust activity in denaturing western blots/IF etc. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: 99% PBS, 0.05% BSA
Purity	Tissue culture supernatant

Purification notes	The bioreactor harvest was dialyzed against PBS, pH 7.4, BSA was added, and the prep was filter-sterilized
Clonality	Monoclonal
Clone number	10E11
Myeloma	Sp2/0
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8639 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
WB		1/1000.
IP		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
IHC-P		1/100.
IHC-Fr		1/100.

Target

Relevance Hepatitis B Virus Core Antigen (HBcAg) is part of the infectious virion containing an inner "core particle" enclosing the viral genome. The icosahedral core particle contains 180 or 240 copies of the core protein. HBcAg is one of the three major clinical antigens of hepatitis B virus but disappears early in the course of infection. The hepatitis B virus core antigen (HBcAg) is a highly immunogenic subviral particle and functions as both a T-cell-dependent and a T-cell-independent antigen. Therefore, HBcAg may be a promising candidate target for therapeutic vaccine control of chronic HBV infection.

Cellular localization Capsid protein: Virion. Host cytoplasm, hepatocyte nucleus.

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