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RUO

Rabbit anti-human Hepatitis B Virus Core Antigen (HBVcAg) Polyclonal Antibody

References and presentations[1]

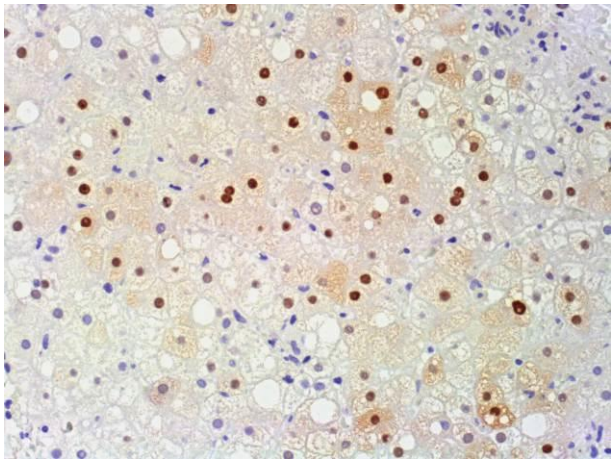
- **ready-to-use (ml)**
  MAD-001150-QD – 3
  MAD-001150-QD – 7
  MAD-001150-QD – 12
- **concentrated**
  MAD-021150-Q - 1:50 recommended dilution

Composition: anti-human HBVcAg rabbit polyclonal antibody fraction from rabbit anti-serum. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
Intended use: Immunohistochemistry (IHC) on paraffin embedded tissues. Research use only. Not tested on frozen tissues or Western-Blotting
Clone: polyclonal
Immunogen: Hepatitis B virus.
Ig isotype: rabbit IgG
Species reactivity: In vitro diagnostics in humans. Not tested in other species
Description and aplications: Hepatitis B virus is spherical in shape with a diameter of 42 nm. It contains a 27 nm partially double stranded DNA core enclosed within a lipoprotein coat. The antigenic activity of the nucleocapsid core is designated as hepatitis B core antigen. The antigens in the outer surface are called as hepatitis B virus surface antigens. Core antigens are localized within the nuclei whereas the surface antigens are present in the cytoplasm of the infected cells. Antibodies to surface antigens appear in circulation at an early stage of infection whereas the antibodies to the core antigens are detected after several weeks.
This antibody recognizes a protein in the core of hepatitis B virus.

IHC positive control: Hepatitis B virus infected liver

[1] These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:
- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).
- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).
For different presentations (references / volumes) please contact the supplier.

Visualization: Nuclear



IHC recommended procedure:
- 4µm thick section should be taken on charged slides; dry overnight at 60º
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Master Diagnóstica EDTA buffer pH8[2] for 20 min at 95ºC. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min

-Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

Storage and stability: up to 18 months; stored at 2-8ºC. Do not freeze.

[2] Ref: MAD-004072R/D

Research use only

Rev.: 2016-03-08

Warnings and precautions:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory.md@vitro.bio.

BIBLIOGRAPHY

1. Burns J. Immunoperoxidase localisation of hepatitis B antigen (HB) in formalin-paraffin processed liver tissue. Histochemistry 44:133. (1975).
2. Tapp E, Jones DM. HBsAg and HBcAg in the livers of asymptomatic hepatitis B antigen carriers. J. Clinical Path. 30:671. (1977).