

Mouse Anti-HBsAg [A10F1]: MC0108, MC0108RTU7

Intended Use: For Research Use Only

Description: Hepatitis B virus causes type B hepatitis and it belongs to hepadnavirus family. It 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.

Specifications:

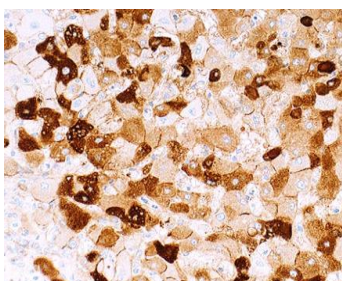
Clone: A10F1
 Source: Mouse
 Isotype: IgG1
 Reactivity: HBV infected tissue
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

| Description | Catalog No. | Size |
|--------------------|-------------|------|
| HBsAg Concentrated | MC0108 | 1 ml |
| HBsAg Prediluted | MC0108RTU7 | 7 ml |

IHC Procedure*:

Positive Control Tissue: HBV infected liver
 Concentrated Dilution: 25-100
 Pretreatment: None
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human infected liver tissue stained with anti-HBsAg using DAB chromogen

References:

1. Nuclear Expression of Hepatitis B Virus X Protein Is Associated with Recurrence of Early-Stage Hepatocellular Carcinomas: Role of Viral Protein in Tumor Recurrence. Jing Jin, et al. J Pathol Transl Med. May; 50(3): 181–189, 2016.
2. Biological characteristics comparison of HBV rtA181T mutants with truncated or substituted HBsAg expression in vitro and in vivo model systems. Zhou LY, et al. Sci Rep. Dec 15, 2016.
3. Clinical features of HBsAg seroclearance in hepatitis B virus carriers in South Korea: A retrospective longitudinal study. Park YM, et al. World J Gastroenterol. Nov 28;22(44):9836-9843, 2016.
4. Hepatitis B: The Virus and Disease. T. Jake Liang. Hepatology. May; 49(5 Suppl): S13–S21, 2009.

Doc. 100-MC0108
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