Datasheet: MCA1391
BATCH NUMBER 156915

Description: MOUSE ANTI HEPATITIS B X ANTIGEN
Specificity: HEPATITIS B X ANTIGEN
Other names: HBxAg
Format: Purified
Product Type: Monoclonal Antibody
Clone: 3F6-G10
Isotype: IgG2b
Quantity: 0.25 mg

Product Details

Applications

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td></td>
<td></td>
<td>1/100</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>1/100</td>
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<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species
Viral

Product Form
Purified IgG - liquid

Preparation
Purified IgG prepared by affinity chromatography on Protein G.

Buffer Solution
Phosphate buffered saline

Preservative Stabilisers
0.09% Sodium Azide
0.1% Bovine Serum Albumin

Approx. Protein
IgG concentration 1.0 mg/ml
**Concentrations**

**Immunogen**
HB-Xag-Protein A Fusion protein.

**External Database Links**

UniProt:
- P03165 Related reagents

**RRID**
AB_322083

**Fusion Partners**
Spleen cells from immunised BALB/c mice were fused with cells of the Sp-2/0-Ag14 mouse myeloma cell line.

**Specificity**

**Mouse anti Hepatitis B-X antibody, clone 3F6-G10** recognizes the HB-X antigen of hepatitis virus. The Hepatitis B X antigen is a 154 amino acid ~17 kDa multifunctional protein involved in the development of liver cirrhosis and hepatocellular carcinoma (UniProt: P03165).

Mouse anti Hepatitis B-X antibody, clone 3F6-G10 was produced by immunization of mice with a "HB-X- Protein A" fusion construct and subsequent screening of hybridoma products against a "HB-X-GST" fusion construct (Marczinovits et al. 1997).

Mouse anti Hepatitis B-X antibody, clone 3F6-G10 has been used succesfully for the detection of the hepatitis B X antigen by immunohistochemistry in formalin fixed, paraffin embedded material, also by western blotting against the immunizing and screening fusion proteins (Pál et al. 2001). Subsequently clone 3F6-G10 has been used as a capture reagent in a sensitive sandwich ELISA and bead based flow assay for the quantitative assessment of HbX antigen in human sera (Pál et al. 2005).

Fine epitope mapping by phage library screening indicates that the epitope recognized by Mouse anti Hepatitis B-X antibody, clone 3F6-G10 lies between amino acids 88 and 93 of the X antigen, a result subsequently confirmed by peptide ELISA (Pál et al. 2003).

**Histology Positive Control Tissue**
Liver Carcinoma/Hepatitis B infected liver.

**References**

5. Cheng, P. et al. (2009) Hepatitis B virus X protein (HBx) induces G2/M arrest and
apoptosis through sustained activation of cyclin B1-CDK1 kinase. 


Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety

Material Safety Datasheet documentation #10041 available at: 
https://www.bio-rad-antibodies.com/SDS/MCA1391
10041

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...) RPE
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,
DyLight®650, DyLight®680, DyLight®800,
FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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