Product Details

**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

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>1/100</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<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
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 cirrosis 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 successfully 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).

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**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**

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

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