

Datasheet: MCA1391 BATCH NUMBER 167467

Description:	MOUSE ANTI HEPATITIS B X ANTIGEN
Specificity:	HEPATITIS B X ANTIGEN
Other names:	HBxAg
Format:	Purified
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody 3F6-G10
	•

Product Details

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	information. For general protocol recommendations, please visit <u>www.bio-</u>					
	rad-antibodies.com/proto	rad-antibodies.com/protocols.					
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen	-			1/100		
	Immunohistology - Paraffin	-			1/100		
	ELISA	-					
	Immunoprecipitation			•			
Target Species	system using appropriate	e negative	e/positive	controls			
	Viral						
Product Form	Viral Purified IgG - liquid						
Product Form Preparation		affinity c	hromatogi		n tissue culture		
	Purified IgG - liquid Purified IgG prepared by	-	hromatogi		n tissue culture		

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	HB-Xag-Protein A Fusion protein.				
External Database Links	UniProt: <u>P03165</u> <u>Related reagents</u>				
RRID	AB_322083				
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the <u>Sp-2/0-Ag14</u> 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 chirrosis and hepatocellular carcinoma (<u>UniProt: P03165</u>).				
	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 (<u>Marczinovits <i>et al.</i> 1997</u>).				
	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 <i>et al.</i> 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 <i>et al.</i> 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 (<u>Pál <i>et al.</i> 2003</u>).				
Histology Positive Control Tissue	Liver carcinoma/Hepatitis B infected liver.				
References	 Chun, E. <i>et al.</i> (2003) Tumor eradication by hepatitis B virus X antigen-specific CD8+ T cells in xenografted nude mice. J Immunol. 170: 1183-90. Pál, J. <i>et al.</i> (2003) Determination of the fine epitope specificity of an anti-hepatitis B virus X protein monoclonal antibody using microanalytical and molecular biological methods. Mol Immunol. 40: 241-6. Pál, J. <i>et al.</i> (2005) Sandwich type ELISA and a fluorescent cytometric microbead assay for quantitative determination of hepatitis B virus X antigen level in human sera. J Immunol Methods. 306: 183-92. Pál, J. <i>et al.</i> (2006) Comprehensive regression analysis of hepatitis B virus X antigen level and anti-HBx antibody titer in the sera of patients with HBV infection. Pathol Oncol Res. 12: 34-40. 				

	 Lei, J.H. <i>et al</i> (2007) Effects of HBV X gene and arsenic trioxide on the expression of p53 in cultured HepG2 cells. <u>Chin Med J 120: 2181-4.</u> Cheng, P. <i>et al.</i> (2009) Hepatitis B virus X protein (HBx) induces G2/M arrest and apoptosis through sustained activation of cyclin B1-CDK1 kinase <u>Oncol Rep. 22: 1101-7.</u> 	
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) <u>Alk. Phos.</u> , <u>HRP</u>			
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)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,		
	DyLight®650, DyLight®680, DyLight®800,		
	<u>FITC, HRP</u>		
Rabbit Anti Mouse IgG (STAR9)	FITC		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR13) Goat Anti Mouse IgG (STAR70) Goat Anti Mouse IgG (H/L) (STAR117) Rabbit Anti Mouse IgG (STAR9)	HRP FITC Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP FITC		

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio	-rad.com	Email: antibody_sales_uk@bio	rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M410623:221028'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint