

## Datasheet: MCA986AMO

<b>Description:</b>	MOUSE ANTI HUMAN HLA B7:Amethyst Orange
<b>Specificity:</b>	HLA B7
<b>Format:</b>	Amethyst Orange
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BB7.1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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 protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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	Human								
Species Cross Reactivity	Reacts with: Cynomolgus monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.								
Product Form	Purified IgG conjugated to Amethyst Orange - liquid								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>Amethyst Orange</td><td>405</td><td>540</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Amethyst Orange	405	540		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
Amethyst Orange	405	540							
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Papain solubilized HLA-B7 antigen
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01889</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3106</a>    HLA-B    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HLAB
<b>Specificity</b>	<p><b>Mouse anti Human HLA B7 antibody, clone BB7.1</b> recognizes the HLA B7 antigen and does not cross-react with HLA B27 or other related antigens. It can be used to distinguish true HLA B27 positives from false HLA B27 positives (i.e. HLA B7 positive) in the investigation of diseases such as ankylosing spondylitis and anterior uveitis. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class I proteins encoded by the HLA which are HLA A, HLA B and HLA C.</p> <p>The HLA B gene is part of the human HLA complex on chromosome 6 and there are a large number of variant alleles of this gene.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1 x 10 <sup>6</sup> cells or 100ul whole blood
<b>References</b>	<ol style="list-style-type: none"> <li>1. Brodsky, F.M. <i>et al.</i> (1979) Monoclonal antibodies for analysis of the HLA system. <a href="#">Immunol Rev. 47: 3-61.</a></li> <li>2. Bonaparte, M.I. and Barker, E. (2004) Killing of human immunodeficiency virus-infected primary T-cell blasts by autologous natural killer cells is dependent on the ability of the virus to alter the expression of major histocompatibility complex class I molecules. <a href="#">Blood. 104: 2087-94.</a></li> <li>3. Anania, V.G. &amp; Coscoy, L. (2011) Palmitoylation of MIR2 is required for its function. <a href="#">J Virol. 85 (5): 2288-95.</a></li> <li>4. Dellgren, C. <i>et al.</i> (2016) Low Constitutive Cell Surface Expression of HLA-B Is Caused by a Posttranslational Mechanism Involving Glu180 and Arg239. <a href="#">J Immunol. 197 (12): 4807-16.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in</p>

frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA986AMO">https://www.bio-rad-antibodies.com/SDS/MCA986AMO</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Amethyst Orange \(MCA928AMO\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M384905:210513'

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