

## Datasheet: MCA116F

**BATCH NUMBER 166963**

<b>Description:</b>	MOUSE ANTI HUMAN HLA B27:FITC
<b>Specificity:</b>	HLA B27
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HLA-ABC-m3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

### 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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	0.2% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	50 ug/ml		

<b>Immunogen</b>	Immune complex precipitated from an HLA-B27 positive cell line by anti HLA antibody and staphylococcal protein A.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P03989</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>RRID</b>	AB_322098
<b>Specificity</b>	<p><b>Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3</b> recognizes the HLA-B27 alloantigen and reacts with the peripheral blood lymphocytes of 47/47 individuals conventionally typed as HLA-B27 + and precipitates cell surface molecules of 43 and 12 kDa, corresponding to the HLA Class 1 heavy chain and beta 2 microglobulin.</p> <p>Scatchard affinity analysis shows that Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3 has a higher affinity for HLA-B27 (<math>9.7 \times 10^8 \text{M}^{-1}</math>) than for HLA B7 (<math>9.5 \times 10^7 \text{M}^{-1}</math>).</p> <p>Flow cytometry - subjects expected fluorescence intensity:  Heterozygous HLA-B27+ = Strong.  Homozygous HLA-B27+ = Strong.  Heterozygous HLA-B7+ = Faint.  Non B27, Non B7 = Negative.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $10^6$ cells or 100ul of whole blood.
<b>References</b>	<ol style="list-style-type: none"> <li>Orr, K. <i>et al.</i> (1994) Utilization of commercial antisera and flow cytometry in HLA-B27 typing. <a href="#">Cytometry (Comm. Clin. Cytometry) 18: 17-20.</a></li> <li>Levering, W.H. <i>et al.</i> (2003) Flow cytometric HLA-B27 screening: cross-reactivity patterns of commercially available anti-HLA-B27 monoclonal antibodies with other HLA-B antigens. <a href="#">Cytometry B Clin Cytom. 54: 28-38.</a></li> <li>Mandic, R. <i>et al.</i> (2004) Comparison of surface HLA class I levels in squamous cell carcinoma cell lines of the head and neck. <a href="#">Anticancer Res. 24 (2B): 973-9.</a></li> <li>Meyer, O. <i>et al.</i> (2006) A simple and practical agglutination assay for human leucocyte antigen-B27 typing. <a href="#">Vox Sang. 91 (1): 77-80.</a></li> <li>Goodall, J.C. <i>et al.</i> (2007) Does HLA-B27 influence the monocyte inflammatory response to lipopolysaccharide? <a href="#">Rheumatology (Oxford). 46: 232-7.</a></li> <li>Meyer, O. <i>et al.</i> (2008) Application of the particle gel agglutination assay in the typing of single human leucocyte antigens. <a href="#">Tissue Antigens. 71 (2): 157-9.</a></li> <li>Marroquin, B. O <i>et al.</i> (2015) HLA-B27-Homodimer-Specific Antibody Modulates the Expansion of Pro-Inflammatory T-Cells in HLA-B27 Transgenic Rats. <a href="#">PLoS One. 10 (6): e0130811.</a></li> </ol>

**Storage** Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA116F>  
10041

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

### 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)  
'M405785:220916'

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