

Datasheet: MCA116F

BATCH NUMBER 153776

Description:	MOUSE ANTI HUMAN HLA B27:FITC
Specificity:	HLA B27
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	HLA-ABC-m3
Isotype:	IgG2a
Quantity:	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.

	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.

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

Immunogen	Immune complex precipitated from an HLA-B27 positive cell line by anti HLA antibody and staphylococcal protein A.
External Database Links	<p>UniProt: P03989 Related reagents</p> <p>Entrez Gene: 3106 HLA-B Related reagents</p>
Synonyms	HLAB
RRID	AB_322098
Specificity	<p>Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3 recognizes the HLA-B27 alloantigen. This antibody reacts with the peripheral blood lymphocytes of 47/47 individuals conventionally typed as HLA-B27 + and precipitates cell surface molecules of 43 and 12 kD, corresponding to the HLA Class 1 heavy chain and beta 2 microglobulin.</p> <p>Affinity studies by Scatchard analysis showed that this antibody has a higher affinity for HLA-B27 ($9.7 \times 10^8 \text{M}^{-1}$) than for HLA B7 ($9.5 \times 10^7 \text{M}^{-1}$).</p> <p>Subjects Expected Fluorescence Intensity Heterozygous HLA-B27+ Strong Homozygous HLA-B27+ Strong Heterozygous HLA-B7+ Faint Non B27, Non B7 Negative</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul of whole blood.
References	<ol style="list-style-type: none"> 1. Trapani, J.A. <i>et al.</i> (1983) Description of a mouse monoclonal anti-HLA-B27 antibody HLA-ABC-m3. Hum Immunol. 7 (4): 205-16. 2. Orr, K. <i>et al.</i> (1994) Utilization of commercial antisera and flow cytometry in HLA-B27 typing. Cytometry (Comm. Clin. Cytometry) 18: 17-20. 3. 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. Cytometry B Clin Cytom. 54: 28-38. 4. 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. Anticancer Res. 24 (2B): 973-9. 5. Goodall, J.C. <i>et al.</i> (2007) Does HLA-B27 influence the monocyte inflammatory response to lipopolysaccharide? Rheumatology (Oxford). 46: 232-7. 6. Meyer, O. <i>et al.</i> (2006) A simple and practical agglutination assay for human leucocyte antigen-B27 typing. Vox Sang. 91 (1): 77-80. 7. Meyer, O. <i>et al.</i> (2008) Application of the particle gel agglutination assay in the typing of single human leucocyte antigens. Tissue Antigens. 71 (2): 157-9. 8. 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. PLoS One. 10 (6): e0130811.
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.

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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