Datasheet: MCA116F

BATCH NUMBER 162029

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 Stabilisers

0.1% Sodium Azide (NaN_3)
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	**UniProt:** P03989 Related reagents **Entrez Gene:** 3106 HLA-B Related reagents
Synonyms	HLAB
RRID	AB_322098
Specificity	**Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3** 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. Scatchard affinity analysis shows that Mouse anti Human HLA B27 antibody, clone HLA-ABC-m3 has a higher affinity for HLA-B27 ($9.7 \times 10^8 M^{-1}$) than for HLA B7 ($9.5 \times 10^7 M^{-1}$). Flow cytometry - subjects expected fluorescence intensity: Heterozygous HLA-B27+ = Strong. Homozygous HLA-B27+ = Strong. Heterozygous HLA-B7+ = Faint. Non B27, Non B7 = Negative.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul of whole blood.
References	1. Trapani, J.A. *et al.* (1983) Description of a mouse monoclonal anti-HLA-B27 antibody HLA-ABC-m3. Hum Immunol. 7 (4): 205-16. 2. Orr, K. *et al.* (1994) Utilization of commercial antisera and flow cytometry in HLA-B27 typing. Cytometry (Comm. Clin. Cytometry) 18: 17-20. 3. Levering, W.H. *et al.* (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. *et al.* (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. *et al.* (2007) Does HLA-B27 influence the monocyte inflammatory response to lipopolysaccharide? Rheumatology (Oxford). 46: 232-7. 6. Meyer, O. *et al.* (2006) A simple and practical agglutination assay for human leucocyte antigen-B27 typing. Vox Sang. 91 (1): 77-80. 7. Meyer, O. *et al.* (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 *et al.* (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	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA116F 10041
Regulatory	For research purposes only

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

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