

Datasheet: MCA116F

BATCH NUMBER 171788

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| 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.

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|---------------------------------------|--|----------------------------|--------------------------|
| 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 from ascites | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.1% Sodium Azide (NaN ₃) | | |
| Stabilisers | 0.2% Bovine Serum Albumin | | |
| Approx. Protein Concentrations | 50 ug/ml | | |

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| 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 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 ($9.7 \times 10^8 \text{M}^{-1}$) than for HLA B7 ($9.5 \times 10^7 \text{M}^{-1}$).</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> |
| 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"> 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. 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. 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. 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. Goodall, J.C. <i>et al.</i> (2007) Does HLA-B27 influence the monocyte inflammatory response to lipopolysaccharide? Rheumatology (Oxford). 46: 232-7. 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. 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 This product is shipped at ambient temperature.
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

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

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M439593:250523'

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