Datasheet: MCA116F
BATCH NUMBER 166888

Product Details

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

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td></td>
<td></td>
<td>Neat</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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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

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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</table>

Preparation: Purified IgG prepared by affinity chromatography on Protein A from ascites

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers:
- 0.1% Sodium Azide (NaN₃)
- 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
- **Entrez Gene**: 3106 HLA-B

**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 \(9.7 \times 10^8 \text{M}^{-1}\) than for HLA B7 \(9.5 \times 10^7 \text{M}^{-1}\).

Flow cytometry - subjects expected fluorescence intensity:
Heterozygous HLA-B27+ = Strong.
Homzygous 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**
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

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)

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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