

Datasheet: MCA116F

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 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		

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

Flow cytometry - subjects expected fluorescence intensity:

Heterozygous HLA-B27+ = Strong.

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 \(6\):](#)

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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: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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