

## Datasheet: MCA81PB

**BATCH NUMBER 171981**

|                      |  |
|----------------------|--|
| <b>Description:</b>  | MOUSE ANTI HUMAN HLA ABC:Pacific Blue® |
| <b>Specificity:</b>  | HLA ABC                                |
| <b>Format:</b>       | Pacific Blue®                          |
| <b>Product Type:</b> | Monoclonal Antibody                    |
| <b>Clone:</b>        | W6/32                                  |
| <b>Isotype:</b>      | IgG2a                                  |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪   |    |                | Neat               |

Where this product 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 product for use in their own system using appropriate negative/positive controls.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Macaque, Bovine, Cynomolgus monkey, Baboon, Rhesus Monkey, Chimpanzee, Gorilla, Shrew

Does not react with: Goat, Dog, Guinea Pig, Rabbit, Mouse, Chicken, Amphibia

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG conjugated to Pacific Blue - liquid

| Max Ex/Em | Fluorophore   | Excitation Max (nm) | Emission Max (nm) |
|-----------|---------------|---------------------|-------------------|
|           | Pacific Blue® | 410                 | 455               |

#### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

|                                       |   |
|---------------------------------------|---|
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide<br>1% Bovine Serum Albumin   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.05 mg/ml  |
| <b>Immunogen</b>                      | Purified human tonsil lymphocyte membranes.   |
| <b>Fusion Partners</b>                | Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1/1-Ag4.1 myeloma cell line.   |
| <b>Specificity</b>                    | <p><b>Mouse anti Human HLA ABC antibody, clone W6/32</b> recognizes an antigenic determinant shared among products of the HLA A, B and C loci. Clone W6/32 recognizes a conformational epitope, reacting with HLA class I alpha3 and alpha2 domains. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class I proteins encoded by the HLA which are HLA A, HLA B and HLA C. These proteins are found on the surface of almost all nucleated somatic cells.</p> <p>Mouse anti Human HLA ABC antibody, clone W6/32 is routinely tested in flow cytometry on human peripheral blood lymphocytes.</p>  |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul  |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Brodsky, F.M. &amp; Parham, P. (1982) Evolution of HLA antigenic determinants: species cross-reactions of monoclonal antibodies. <a href="#">Immunogenetics. 15 (2): 151-66.</a></li> <li>2. Neefjes, J.J. <i>et al.</i> (1986) A biochemical characterization of feline MHC products: unusually high expression of class II antigens on peripheral blood lymphocytes. <a href="#">Immunogenetics. 23 (5): 341-7.</a></li> <li>3. Stern, P.L. <i>et al.</i> (1987) Class I-like MHC molecules expressed by baboon placental syncytiotrophoblast. <a href="#">J Immunol. 138 (4): 1088-91.</a></li> <li>4. Jacobsen, C.N. <i>et al.</i> (1993) Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species. <a href="#">Vet Immunol Immunopathol. 39 (4): 461-6.</a></li> <li>5. Verbeek, M.M. <i>et al.</i> (1995) T lymphocyte adhesion to human brain pericytes is mediated via very late antigen-4/vascular cell adhesion molecule-1 interactions. <a href="#">J Immunol. 154 (11): 5876-84.</a></li> <li>6. Raftery, M.J. <i>et al.</i> (2002) Hantavirus infection of dendritic cells. <a href="#">J Virol. 76: 10724-33.</a></li> <li>7. Dressel, R. <i>et al.</i> (2003) Differential effect of acute and permanent heat shock protein 70 overexpression in tumor cells on lysability by cytotoxic T lymphocytes. <a href="#">Cancer Res. 63 (23): 8212-20.</a></li> <li>8. Ishitani, A. <i>et al.</i> (2003) Protein expression and peptide binding suggest unique and interacting functional roles for HLA-E, F, and G in maternal-placental immune recognition. <a href="#">J Immunol. 171 (3): 1376-84.</a></li> <li>9. Giuliani, F. <i>et al.</i> (2003) Vulnerability of human neurons to T cell-mediated cytotoxicity. <a href="#">J Immunol. 171: 368-79.</a></li> </ol> |

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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**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/MCA81PB>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:Pacific Blue® \(MCA929PB\)](#)

### Recommended Useful Reagents

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
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