

Datasheet: MCA986PE

Description:	MOUSE ANTI HUMAN HLA B7:RPE
Specificity:	HLA B7
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	BB7.1
Isotype:	IgG1
Quantity:	100 TESTS

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

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		
Species Cross Reactivity	Reacts with: Cynomolgus monkey 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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water.		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose
Immunogen	Papain solubilized HLA-B7 antigen
External Database Links	UniProt: P01889 Related reagents Entrez Gene: 3106 HLA-B Related reagents
Synonyms	HLAB
RRID	AB_322099
Specificity	<p>Mouse anti Human HLA B7 antibody, clone BB7.1 recognizes the HLA B7 antigen and does not cross-react with HLA B27 or other related antigens. It can be used to distinguish true HLA B27 positives from false HLA B27 positives (i.e. HLA B7 positive) in the investigation of diseases such as ankylosing spondylitis and anterior uveitis. 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.</p> <p>The HLA B gene is part of the human HLA complex on chromosome 6 and there are a large number of variant alleles of this gene.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1 x 10 ⁶ cells or 100ul whole blood.
References	<ol style="list-style-type: none"> 1. Brodsky, F.M. <i>et al.</i> (1979) Monoclonal antibodies for analysis of the HLA system. Immunol Rev. 47: 3-61. 2. Bonaparte, M.I. and Barker, E. (2004) Killing of human immunodeficiency virus-infected primary T-cell blasts by autologous natural killer cells is dependent on the ability of the virus to alter the expression of major histocompatibility complex class I molecules. Blood. 104: 2087-94. 3. Anania, V.G. & Coscoy, L. (2011) Palmitoylation of MIR2 is required for its function. J Virol. 85 (5): 2288-95. 4. Dellgren, C. <i>et al.</i> (2016) Low Constitutive Cell Surface Expression of HLA-B Is Caused by a Posttranslational Mechanism Involving Glu180 and Arg239. J Immunol. 197 (12): 4807-16.
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. This product should be stored undiluted.

DO NOT FREEZE. 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
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Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA986PE 20487
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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
'M429222:240326'

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