Datasheet: MCA986AMO

BATCH NUMBER 149338

Description:	MOUSE ANTI HUMAN HLA B7:Amethyst Orange
Specificity:	HLA B7
Format:	Amethyst Orange
Product Type:	Monoclonal Antibody
Clone:	BB7.1
Isotype:	IgG1
Quantity:	0.1 mg

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 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: 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 Amethyst Orange - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Amethyst Orange	405	540

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 (NaN_3) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Papain solubilized HLA-B7 antigen
External Database Links	**UniProt:** P01889 Related reagents **Entrez Gene:** 3106 HLA-B Related reagents
Synonyms	HLAB
Specificity	**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. 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1 x 10^6 cells or 100ul whole blood
References	1. Brodsky, F.M. *et al.* (1979) Monoclonal antibodies for analysis of the HLA system. Immunol Rev. 47: 3-61. 2. Yoshino N *et al.* (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. Exp Anim. 49 (2): 97-110. 3. Anania, V.G. & Coscoy, L. (2011) Palmitoylation of MIR2 is required for its function. J Virol. 85 (5): 2288-95. 4. 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. 5. Dellgren, C. *et al.* (2016) Low Constitutive Cell Surface Expression of HLA-B Is Caused by a Posttranslational Mechanism Involving Glu180 and Arg239. J Immunol. 197 (12): 4807-4816.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.

	This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. 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/MCA986AMO 10041
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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