

Datasheet: MCA2497F

Description:	MOUSE ANTI HUMAN HLA DP DQ DR:FITC
Specificity:	HLA DP DQ DR
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	Bu26
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 - 1/10

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		
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 G 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 0.1mg/ml		

Specificity	<p>Mouse anti Human HLA DP DQ DR antibody, clone Bu26 reacts with DP, DQ and DR beta chains, which are expressed by antigen presenting cells, B cells, monocytes and activated T lymphocytes.</p> <p>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 II proteins encoded by the HLA which are HLA DP, HLA DQ and HLA DR.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none">1. Chapple, M.R. <i>et al.</i> (1990) A phenotypic study of B lymphocyte subpopulations in human bone marrow. Clin Exp Immunol. 81 (1): 166-72.2. Kumararatne, D.S. <i>et al.</i> (1990) Specific lysis of mycobacterial antigen-bearing macrophages by class II MHC-restricted polyclonal T cell lines in healthy donors or patients with tuberculosis. Clin Exp Immunol. 80 (3): 314-23.3. Forte M <i>et al.</i> (1992) T-lymphocyte responses to <i>Pneumocystis carinii</i> in healthy and HIV-positive individuals. J Acquir Immune Defic Syndr. 5 (4): 409-16.4. Hassell AB <i>et al.</i> (1992) MHC restriction of synovial fluid lymphocyte responses to the triggering organism in reactive arthritis. Absence of a class I-restricted response. Clin Exp Immunol. 88 (3): 442-7.5. Pithie AD <i>et al.</i> (1992) Generation of cytolytic T cells in individuals infected by <i>Mycobacterium tuberculosis</i> and vaccinated with BCG. Thorax. 47 (9): 695-701.6. Shokri, F. <i>et al.</i> (1993) Immunophenotypic and idiotypic characterisation of the leukaemic B-cells from patients with polymphocytic leukaemia: evidence for a selective expression of immunoglobulin variable region (IGV) gene products. Leuk Res. 17 (8): 669-76.7. Knox, P.G. & Young, L.S. (1995) Epstein-Barr virus infection of CR2-transfected epithelial cells reveals the presence of MHC class II on the virion. Virology. 213 (1): 147-57.8. Uyama, H. <i>et al.</i> (2022) Competency of iPSC-derived retinas in MHC-mismatched transplantation in non-human primates. Stem Cell Reports. 17 (11): 2392-408.
Storage	<p>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.</p> <p>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.</p>
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/MCA2497F 10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

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

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