

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	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		

Specificity

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.

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,

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

- References**
1. Chapple, M.R. *et al.* (1990) A phenotypic study of B lymphocyte subpopulations in human bone marrow. [Clin Exp Immunol. 81 \(1\): 166-72.](#)
 2. Forte M *et al.* (1992) T-lymphocyte responses to *Pneumocystis carinii* in healthy and HIV-positive individuals. [J Acquir Immune Defic Syndr. 5 \(4\): 409-16.](#)
 3. 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.](#)
 4. Hassell AB *et al.* (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. Kumararatne, D.S. *et al.* (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.](#)
 6. Shokri, F. *et al.* (1993) Immunophenotypic and idiotypic characterisation of the leukaemic B-cells from patients with prolymphocytic leukaemia: evidence for a selective expression of immunoglobulin variable region (IGV) gene products. [Leuk Res. 17 \(8\): 669-76.](#)
 7. Pithie AD *et al.* (1992) Generation of cytolytic T cells in individuals infected by *Mycobacterium tuberculosis* and vaccinated with BCG. [Thorax. 47 \(9\): 695-701.](#)

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.

Shelf Life 18 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 IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

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

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

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