



DATA SHEET

Datasheet: MCA1267GA

Description:	MOUSE ANTI HUMAN CD4
Specificity:	CD4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RPA-T4
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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/50 - 1/100
Immunohistology - Frozen	■			1/10 - 1/100
Immunohistology - Paraffin		■		
Immunohistology - Resin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	

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
Product Form	Purified IgG - liquid
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
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Human PHA blasts
External Database Links	UniProt: P01730 CD4_HUMAN Related reagents Entrez Gene: 920 CD4 Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	MCA1267GA recognises human CD4, a 55kD cell surface glycoprotein that is primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages. Epitope mapping studies have shown that antibodies, produced by clone RPA-T4, recognise an epitope within domain 1, of the extracellular region, of the

CD4 molecule.

Clone RPA-T4 has been reported to block gp120-CD4 interaction and inhibit syncytium formation (2). Serotec recommend the use of [MCA1267EL](#) for this purpose.

Flow Cytometry Use 10ul of the suggested working dilution to label 10^8 cells or 100ul whole blood Method sheets are available on request.

Histology Positive Control Tissue Human lymphatic tissue

References

1. Zarkesh-Esfahani, H. *et al.* (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. [J. Immunol. 167:4593 – 4599](#).
2. Voehringer, D. *et al.* (2002) Lack of proliferative capacity of human effector and memory T cells expressing killer cell lectin-like receptor G1 (KLRG1). [Blood. 100: 3698 - 3702](#).
3. Piatier-Tonneau, D. (1997) CD4 workshop panel report. In Leucocyte Typing VI. White cell differentiation antigens. Edited by Kishimoto, T., Kikutani, H., von dem Borne, A.E.G.Kr., Goyert, A.M., Mason, D.Y., Miyasaka, M., Moretta, L., Okumura, K., Shaw, S., Springer, T.A., Sugamura, K., Zola, H. Garland publishing Inc. New York & London.
4. Penton-Rol, G. *et al.* (2011) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. [Int Immunopharmacol. 11: 29-38](#).
5. Wright, G.J. *et al.* (2001) The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. [Immunology. 102: 173-9](#).

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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.

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