

Datasheet: MCA1267SBV670

BATCH NUMBER 100007492

Description:	MOUSE ANTI HUMAN CD4:StarBright Violet 670
Specificity:	CD4
Format:	StarBright Violet 670
Product Type:	Monoclonal Antibody
Clone:	RPA-T4
Isotype:	lgG1
Quantity:	100 TESTS/0.5ml

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		
Product Form	Purified IgG conjugate	ed to StarBright Violet	670 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	StarBright Violet 670	400	667
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G
Buffer Solution	Phosphate buffered sa	aline	
Preservative	0.09% sodium azide (NaN ₃)	
Stabilisers	1% bovine serum albu	umin	
	0.1% Pluronic F68		
	0.1% PEG 3350		
	0.05% Tween 20		

lmmunogen			
External Database			

Links

Human PHA blasts

UniProt:

P01730 Related reagents

Entrez Gene:

Related reagents 920 CD4

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse NSI myeloma cell line

Specificity

Mouse anti human CD4 antibody, clone RPA-T4 recognizes human CD4, a ~55 kDa cell surface glycoprotein, primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages. Epitope mapping shows that antibodies, produced by clone RPA-T4, recognize an epitope within domain 1 of the extracellular region of the CD4 molecule.

Mouse anti human CD4 antibody, clone RPA-T4 blocks gp120-CD4 interaction and inhibits syncytium formation (Piatier-Tonneau et al, 1997). The use of Mouse anti Human CD4:Low Endotoxin (MCA1267EL) is recommended for functional assays.

Flow Cytometry

Use 5_{ul} of the suggested working dilution to label 10⁶ cells in 100_{ul}. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

- 1. Zarkesh-Esfahani, H. et al. (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. J Immunol. 167 (8): 4593-9.
- 2. Voehringer, D. et al. (2002) Lack of proliferative capacity of human effector and memory T cells expressing killer cell lectinlike receptor G1 (KLRG1). Blood. 100 (10): 3698-702.
- 3. Piatier-Tonneau, D. (1997) CD4 workshop panel report. In: Leucocyte Typing VI: White Cell Differentiation Antigens: Proceedings of the Sixth International Workshop and Conference Held in Kobe, Japan, 10-14 November 1996. Garland Pub., 1998.
- 4. Pentón-Rol, G. et al. (2011) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. Int Immunopharmacol. 11 (1): 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 (2): 173-9.
- 6. Zhang, Y. et al. (2013) Accelerated in vivo. proliferation of memory phenotype CD4+ T-cells in human HIV-1 infection irrespective of viral chemokine co-receptor tropism. PLoS Pathog. 9 (4): e1003310.
- 7. Bughani, U. et al. (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. PLoS One. 12 (7): e0180088.

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted.

Guarantee

12 months from date of despatch

Acknowledgements

This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign

counterparts

Health And Safety Material Safety Datasheet documentation #20471 available at: Information

https://www.bio-rad-antibodies.com/SDS/MCA1267SBV670

20471

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376 Tel: +44 (0)1865 852 700 Tel: +49 (0) 89 8090 95 21 Worldwide Europe America Fax: +1 919 878 3751 Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_us@bio-rad.com 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 'M408877:221014'

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