

Datasheet: MCA1267SBV570

BATCH NUMBER 100007599

| Description: | MOUSE ANTI HUMAN CD4:StarBright Violet 570 | | |
|---------------|--|--|--|
| Specificity: | CD4 | | |
| Format: | StarBright Violet 570 | | |
| 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 | 570 - liquid |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm |
| | StarBright Violet 570 | 402 | 570 |
| 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 | | |

| Immunogen | Human PHA blasts | | | | | | |
|----------------------------|--|--|--|--|--|--|--|
| External Database Links | UniProt: P01730 Related reagents | | | | | | |
| | Entrez Gene: 920 CD4 Related reagents | | | | | | |
| 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 <i>et al</i> , 1997). The use of Mouse anti Human CD4:Low Endotoxin (MCA1267EL) is recommended for functional assays. | | | | | | |
| Flow Cytometry | Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. | | | | | | |
| References | 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. Zarkesh-Esfahani, H. et al. (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. J Immunol. 167 (8): 4593-9. 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. Pentón-Rol, G. et al. (2011) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. Int Immunopharmacol. 11 (1): 29-38. 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. Bughani, U. et al. (2017) T cell activation and differentiation is modulated by a CD6 | | | | | | |

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:

https://www.bio-rad-antibodies.com/SDS/MCA1267SBV570

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Regulatory For research purposes only

Related Products

Information

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

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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 'M408878:221014'

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