

Datasheet: MCA1267SBB615 BATCH NUMBER 64585461

| Description: | MOUSE ANTI HUMAN CD4:StarBright Blue 615 | | |
|---------------|--|--|--|
| Specificity: | CD4 | | |
| Format: | StarBright Blue 615 | | |
| Product Type: | Monoclonal Antibody | | |
| Clone: | RPA-T4 | | |
| Isotype: | lgG1 | | |
| Quantity: | 100 TESTS/0.5ml | | |
| | | | |

Product Details

| Applications | This product has been derived from testing wi communications from t information. For genera rad-antibodies.com/pro | ithin our labora the originators al protocol reco | tories, Please | peer-reviewed publica e refer to references ir | itions or personal ndicated for further | | |
|-----------------|---|---|-------------------|---|--|--|--|
| | | Yes | No | Not Determined | Suggested Dilution | | |
| | Flow Cytometry | - | | | Neat | | |
| | Where this product has not been tested for use in a particular technique this does necessarily exclude its use in such procedures. Suggested working dilutions are g a guide only. It is recommended that the user titrates the product for use in their o system using appropriate negative/positive controls. | | | | | | |
| Target Species | Human | | | | | | |
| Product Form | Purified IgG conjugated to StarBright Blue 615 - liquid | | | | | | |
| Max Ex/Em | Fluorophore StarBright Blue 615 | Excitation Ma 475 | k (nm) | Emission Max (nm) 612 | | | |
| 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 | | | | | | |
| | 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 (<u>Piatier-Tonneau <i>et al</i>, 1997</u>). The use of <u>Mouse anti Human</u> <u>CD4:Low Endotoxin (MCA1267EL)</u> 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. <i>et al.</i> (2001) High-dose leptin activates human leukocytes via receptor expression on monocytes. J Immunol. 167 (8): 4593-9. | | | |
| | 3. Wright, G.J. <i>et al.</i> (2001) The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. <u>Immunology. 102 (2): 173-9.</u> | | | |
| | 4. Pentón-Rol, G. <i>et al.</i> (2011) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. Int Immunopharmacol. 11 (1): 29-38. | | | |
| | 5. Zhang, Y. <i>et al.</i> (2013) Accelerated <i>in vivo.</i> proliferation of memory phenotype CD4 ⁺ T-cells in human HIV-1 infection irrespective of viral chemokine co-receptor tropism. <u>PLoS</u> | | | |
| | Pathog. 9 (4): e1003310. 6. Bughani, U. <i>et al.</i> (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. PLoS One. 12 (7): e0180088. | | | |
| | 7. Agrawal, S.M. <i>et al.</i> (2013) Extracellular matrix metalloproteinase inducer shows active | | | |
| | perivascular cuffs in multiple sclerosis. <u>Brain. 136 (Pt 6): 1760-77.</u> | | | |
| | 8. Malmassari, S.L. <i>et al.</i> (2007) Impact of hepatitis B virus basic core promoter mutations on T cell response to an immunodominant HBx-derived epitope. <u>Hepatology. 45 (5)</u> : | | | |
| | <u>1199-209.</u> 0. Wooldridge L. et al. (2006) Anti-correceptor antibodies profoundly affect staiping with | | | |
| | Wooldridge, L. <i>et al.</i> (2006) Anti-coreceptor antibodies profoundly affect staining with peptide-MHC class I and class II tetramers. <u>Eur J Immunol. 36 (7): 1847-55.</u> Wildum, S. <i>et al.</i> (2006) Contribution of Vpu, Env, and Nef to CD4 down-modulation | | | |
| | and resistance of human immunodeficiency virus type 1-infected T cells to superinfection. | | | |

| | J Virol. 80 (16): 8047-59. 11. Kirchhof, J. <i>et al.</i> (2018) Learned immunosuppressive placebo responses in renal transplant patients. Proc Natl Acad Sci U S A. 115 (16): 4223-7. 12. Kelleher, M. <i>et al.</i> (2011) Comparative Kinetics of Immune Responses and Changes in Cellular Sub-Sets Detected in Colorectal Cancer Patients Vaccinated with MVA-5T4 (TroVax) Administered Alongside Two Different Chemotherapy Regimens J Cancer Therapy. 02 (01): 54-64. | | | | |
|----------------------------------|---|--|--|--|--|
| 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 Information | Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1267SBB615 20471 | | | | |
| Regulatory | For research purposes only | | | | |

Related Products

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 | | Fax: +44 (0)1865 852 739 | | Fax: +49 (0) 89 8090 95 50 |
| | Email: antibody_sales_us@bio-rad.com | | Email: antibody_sales_uk@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 'M408946:221015'

Printed on 18 Apr 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint