

Datasheet: MCA1019SBR775

| Description: | MOUSE ANTI HUMAN CD38:StarBright Red 775 | | | |
|---------------|--|--|--|--|
| Specificity: | CD38 | | | |
| Format: | StarBright Red 775 | | | |
| Product Type: | Monoclonal Antibody | | | |
| Clone: | AT13/5 | | | |
| Isotype: | lgG1 | | | |
| Quantity: | 100 TESTS/0.5ml | | | |
| | | | | |

Product Details

| Applications | This product has been reported to work in the following applications. This inform derived from testing within our laboratories, peer-reviewed publications or person communications from the originators. Please refer to references indicated for fur information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> . | | | | | |
|-----------------------------|--|-----------------|------------|---------------------------|---|--|
| | | Yes | No | Not Determined | Suggested Dilution | |
| | Flow Cytometry | - | | | Neat | |
| | Where this product ha | s not been tes | sted for u | use in a particular tech | nnique this does not | |
| | necessarily exclude its a guide only. It is reco system using appropri | mmended tha | t the use | er titrates the product f | g dilutions are given as or use in their own | |
| Target Species | Human | | | | | |
| Product Form | Purified IgG conjugated to StarBright Red 775 - liquid | | | | | |
| Max Ex/Em | Fluorophore StarBright Red 775 | Excitation Ma | ax (nm) | Emission Max (nm) 778 | | |
| Preparation | Purified IgG prepared supernatant | by affinity chr | omatogr | aphy on Protein A fror | n tissue culture | |
| Buffer Solution | Phosphate buffered sa | aline | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (1% Bovine Serum Alb 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20 | | | | | |

| Immunogen | Namalwa human B-cell line. |
|----------------------------|--|
| External Database Links | UniProt: <u>P28907</u> <u>Related reagents</u> Entrez Gene: <u>952</u> CD38 <u>Related reagents</u> |
| Fusion Partners | Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. |
| Specificity | Mouse anti Human CD38 antibody, clone AT13/5 recognizes CD38, also known as ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, 2'-phospho-ADP-ribosyl cyclase, 2'-phospho-ADP-ribosyl cyclase, ADP-ribosyl cyclase 1, Cyclic ADP-ribose hydrolase 1 or T10. CD38 is a 300 amino acid ~45 kDa single pass type II transmembrane glycoprotein and Mouse anti Human CD38 antibody, clone AT13/5 has a reactivity pattern consistent with other antibodies of the CD38 cluster. CD38 is expressed by plasma cells, monocytes, early lymphoid cells and activated T cells. |
| | CD38 is a multifunctional enzyme involved in calcium signaling and nicotinamide adenine dinucleotide (NAD+) metabolism (<u>de Oliveira <i>et al.</i> 2018</u>). |
| 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 | Corcione, A. <i>et al.</i> (2009) CX3CR1 is expressed by human B lymphocytes and mediates [corrected] CX3CL1 driven chemotaxis of tonsil centrocytes. <u>PLoS One. 4</u>: <u>e8485.</u> Hovden, A.O. <i>et al.</i> (2011) Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. <u>BMC Immunol. 12</u>: 2. Tipping, A.J. <i>et al.</i> (2009) High GATA-2 expression inhibits human hematopoietic stem and progenitor cell function by effects on cell cycle <u>Blood. 113</u>: 2661-72. Slyker, J.A. <i>et al.</i> (2012) Acute cytomegalovirus infection is associated with increased frequencies of activated and apoptosis-vulnerable T cells in HIV-1-infected infants. <u>J Virol.</u> <u>86 (20): 11373-9.</u> Slyker, J.A. <i>et al.</i> (2012) The impact of HIV-1 infection and exposure on natural killer (NK) cell phenotype in Kenyan infants during the first year of life. <u>Front Immunol. 3</u>: 399. 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 <u>J Cancer</u> <u>Therapy. 02 (01): 54-64.</u> |
| Further Reading | 1. Malavasi, F. <i>et al.</i> (1994) Human CD38: a glycoprotein in search of a function. <u>Immunol</u> <u>Today. 15 (3): 95-7.</u> |
| 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/MCA1019SBR775 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 'M426073:231120'

Printed on 12 Dec 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint