

Datasheet: MCA503PE BATCH NUMBER 162153

| Description: | RAT ANTI HUMAN CD18:RPE |
|---------------|-------------------------|
| Specificity: | CD18 |
| Other names: | INTEGRIN BETA 2 CHAIN |
| Format: | RPE |
| Product Type: | Monoclonal Antibody |
| Clone: | YFC118.3 |
| Isotype: | lgG2b |
| Quantity: | 100 TESTS |

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 <u>www.bio-rad-antibodies.com/protocols</u> . | | | | | | |
|-----------------------------|--|---|---|--------------------------|--|--|--|
| | | Yes No | Not Determined | Suggested Dilution | | | |
| | Flow Cytometry | - | | Neat | | | |
| | necessarily exclude its | s use in such proce mmended that the | for use in a particular tec dures. Suggested workin user titrates the antibody e controls. | g dilutions are given as | | | |
| Target Species | Human | | | | | | |
| Species Cross Reactivity | Reacts with: Dog, Guinea Pig N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. | | | | | | |
| Product Form | Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilized | | | | | | |
| Reconstitution | Reconstitute with 1 ml distilled water | | | | | | |
| Max Ex/Em | Fluorophore | Excitation Max (nn | n) Emission Max (nm) | | | | |
| | RPE 488nm laser | 496 | 578 | | | | |
| Preparation | Purified IgG prepared | by affinity chromate | ography on Protein G | | | | |

| Buffer Solution | Phosphate buffered saline |
|----------------------------|--|
| Preservative | 0.09% Sodium Azide |
| Stabilisers | 1% Bovine Serum Albumin |
| | 5% Sucrose |
| | |
| Immunogen | Human neutrophils |
| External Database Links | UniProt: |
| | P05107 Related reagents |
| | Entrez Gene: |
| | 3689 ITGB2 Related reagents |
| Synonyms | CD18, MFI7 |
| RRID | AB_321328 |
| Fusion Partners | Spleen cells from immunized LOU rats were fused with cells of the rat Y3/Ag.1.2.3 myeloma cell line |
| Specificity | Rat anti Human CD18 antibody, clone YFC118.3 was clustered at the Fourth International Workshop on Leucocyte Differentiation Antigens (code number N221) as recognizing the CD18 antigen. |
| | CD18 is an integral membrane glycoprotein of ~95 kDa, also known as the beta 2 chai of the LFA-1 complex. CD18 links non-covalently to either CD11a, b or c molecules forming the heteromeric LFA-1 complex. CD18 acts as the receptor for ICAM-1 and is important for cell adhesion and cell-cell interactions (<u>Reina &Espel 2017</u>). |
| | Rat anti Human CD18 antibody, clone YFC118.3 demonstrates strong reactivity with leucocytes and is not reactive with platelets. |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 100ul whole blood or 10 ⁶ cells in 100ul. |
| References | Bindon, C.I. <i>et al.</i> (1988) Importance of antigen specificity for complement-mediated lysis by monoclonal antibodies. <u>Eur J Immunol. 18 (10): 1507-14.</u> Chabanne, L. <i>et al.</i> (1994) Screening of 78 monoclonal antibodies directed against human leukocyte antigens for cross-reactivity with surface markers on canine lymphocytes. <u>Tissue Antigens. 43 (3): 202-5.</u> Sampaio, W.M. <i>et al.</i> (2007) <i>In vitro</i> binding and survival assays of Leishmania parasites to peripherical blood monocytes and monocyte-derived macrophages isolated from dogs naturally and experimentally infected with <i>Leishmania chagasi</i>. <u>BMC Vet Re</u> <u>3:11.</u> Canalli, A.A. <i>et al.</i> (2011) Participation of Mac-1, LFA-1 and VLA-4 integrins in the in vitro adhesion of sickle cell disease neutrophils to endothelial layers, and reversal of |
| References | Iysis by monoclonal antibodies. Eur J Immunol. 18 (10): 1507-14. 2. Chabanne, L. <i>et al.</i> (1994) Screening of 78 monoclonal antibodies directed against human leukocyte antigens for cross-reactivity with surface markers on canine lymphocytes. Tissue Antigens. 43 (3): 202-5. 3. Sampaio, W.M. <i>et al.</i> (2007) <i>In vitro</i> binding and survival assays of Leishmania parasites to peripherical blood monocytes and monocyte-derived macrophages isolate from dogs naturally and experimentally infected with <i>Leishmania chagasi</i>. BMC Vet R 3:11. 4. Canalli, A.A. <i>et al.</i> (2011) Participation of Mac-1, LFA-1 and VLA-4 integrins in the |

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| | characteristics, histopathologic diagnosis and clinical outcome in dogs with naïve B-cell lymphoma treated with a 19-week CHOP protocol. <u>Vet Comp Oncol. 18 (3): 342-52.</u> | | |
|----------------------------------|--|--|--|
| Storage | Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. | | |
| | DO NOT FREEZE. | | |
| | This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. | | |
| Guarantee | 12 months from date of despatch | | |
| Acknowledgements | The isolation and characterisation of this cell line was carried out with help of funds supplied by the Medical Research Council, UK. | | |
| Health And Safety Information | Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA503PE 20487 | | |
| Regulatory | For research purposes only | | |

Related Products

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL:RPE (MCA6006PE)

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@bic | -rad.com | Email: antibody_sales_uk@bio-ra | ad.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 'M375580:210104'

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