

Datasheet: MCA1855PB

| Description: | MOUSE ANTI HUMAN CD161:Pacific Blue® |
|---------------|--------------------------------------|
| Specificity: | CD161 |
| Other names: | NKR-P1 |
| Format: | Pacific Blue® |
| Product Type: | Monoclonal Antibody |
| Clone: | B199.2 |
| Isotype: | lgG1 |
| Quantity: | 100 TESTS/1ml |
| | |

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 N | Not Det | ermined | Suggested Dilution | |
| | Flow Cytometry | • | | | Neat | |
| | Where this product has not been tested for use in a particular technique this does not | | | | | |
| | necessarily exclude its a guide only. It is reconsystem using appropri | mmended that th | e user titrates th | | g dilutions are given as or use in their own | |
| Target Species | Human | | | | | |
| Product Form | Purified IgG conjugate | ed to Pacific Blue | 🖲 - liquid | | | |
| Max Ex/Em | Fluorophore | Excitation Max (| nm) Emission | Max (nm) | | |
| | Pacific Blue® | 410 | 45 | 15 | | |
| Preparation | Purified IgG prepared supernatant | by affinity chrom | atography on Pr | rotein G from | n tissue culture | |
| Buffer Solution | Phosphate buffered sa | aline | | | | |
| Preservative Stabilisers | 0.09% sodium azide (l 1% bovine serum albu | • | | | | |
| Approx. Protein Concentrations | IgG concentration 0.08 | 5 mg/ml | | | | |

| External Database Links | UniProt: <u>Q12918</u> Related reagents | | | | |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| | Factors Ocean | | | | |
| | Entrez Gene: <u>3820</u> KLRB1 <u>Related reagents</u> | | | | |
| Synonyms | CLEC5B, NKRP1A | | | | |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the mouse P2X63.Ag8.653 myeloma cell line. | | | | |
| Specificity | Mouse anti Human CD161 antibody, clone B199.2 recognizes the human Killer cell lectin-like receptor subfamily B member 1, also known as CD161, C-type lectin domain family 5 member B, HNKR-P1a, NKR-P1A or Natural killer cell surface protein P1A. CD161 is a 225 amino acid ~25 kDa predicted molecular mass, single pass type II transmembrane glycoprotein with a single <u>C-type lectin</u> domain. CD161 is expressed by almost all NK cells and a subset of CD3+ve T cells (<u>Lanier 1994</u>). | | | | |
| | CD161, a member of the C-lectin is expressed as a disulphide bond-linked homodimeric cell surface protein, comprising two chains of ~40-44 kDa (<u>Lanier <i>et al.</i> 1994</u>). CD161 acts as a receptor for another c-type lectin, LLT1 with roles in the regulation of NK cell and T cell function (<u>Aldemir <i>et al.</i> 2005</u>). | | | | |
| | Mouse anti Human CD161 antibody, clone B199.2 cross-competes with and recognizes a similar epitope to the DX1 monoclonal antibody (<u>Lanier <i>et al.</i> 1994</u>). | | | | |
| Flow Cytometry | Use 10 μ l of the suggested working dilution to label 10 ⁶ cells in 100 μ l | | | | |
| References | Bennett, I.M. <i>et al.</i> (1996) Definition of a natural killer NKR-P1A+/CD56-/CD16- functionally immature human NK cell subset that differentiates <i>in vitro</i> in the presence of interleukin 12. <u>J Exp Med. 184 (5): 1845-56.</u> Azzoni, L. <i>et al.</i> (1998) Differential transcriptional regulation of CD161 and a novel | | | | |
| | gene, 197/15a, by IL-2, IL-15, and IL-12 in NK and T cells. <u>J Immunol. 161 (7): 3493-500.</u> | | | | |
| | 3. Higai, K. <i>et al.</i> (2006) Binding of sialyl Lewis X antigen to lectin-like receptors on NK | | | | |
| | cells induces cytotoxicity and tyrosine phosphorylation of a 17-kDa protein. Biochim | | | | |
| | <u>Biophys Acta. 1760 (9): 1355-63.</u> | | | | |
| | 4. Birchall, M.A. et al. (2008) Immunologic response of the laryngeal mucosa to | | | | |
| | extraesophageal reflux. <u>Ann Otol Rhinol Laryngol. 117: 891-5.</u> | | | | |
| | 5. Huarte, E. <i>et al.</i> (2008) PILAR is a novel modulator of human T-cell expansion. <u>Blood.</u> | | | | |
| | <u>112: 1259-68.</u> | | | | |
| | 6. Williams, P.J. <i>et al.</i> (2009) Altered decidual leucocyte populations in the placental bed in pre-eclampsia and foetal growth restriction: a comparison with late normal pregnancy. | | | | |
| | Reproduction. 138: 177-84. | | | | |
| | 7. Richter, J. <i>et al.</i> (2010) CD161 receptor participates in both impairing NK cell | | | | |
| | cytotoxicity and the response to glycans and vimentin in patients with rheumatoid arthritis. | | | | |
| | | | | | |

Clin Immunol. 136: 139-47.

| 8. de Lalla, C. et al. (2011) Invariant NKT Cell Reconstitution in Pediatric Leukemia |
|-----------------------------------------------------------------------------------------|
| Patients Given HLA-Haploidentical Stem Cell Transplantation Defines Distinct CD4+ and |
| CD4- Subset Dynamics and Correlates with Remission State. J Immunol. 186: 4490-9. |
| 9. Bossard, C. et al. (2012) Plasmacytoid dendritic cells and Th17 immune response |
| contribution in gastrointestinal acute graft-versus-host disease. Leukemia. 26: 1471-4. |
| 10. Abrahamsson, S.V. et al. (2013) Non-myeloablative autologous haematopoietic stem |
| cell transplantation expands regulatory cells and depletes IL-17 producing mucosal- |
| associated invariant T cells in multiple sclerosis. Brain. 136: 2888-903. |
| 11. Rother, S. <i>et al.</i> (2015) The c.503T>C Polymorphism in the Human KLRB1 Gene |
| Alters Ligand Binding and Inhibitory Potential of CD161 Molecules. PLoS One. 10 (8): |
| <u>e0135682.</u> |
| |

StorageThis product is shipped at ambient temperature. It is recommended to aliquot and store at
-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for
short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

| Health And Safety | Material Safety Datasheet documentation #10041 available at: | | |
|-------------------|--------------------------------------------------------------|--|--|
| Information | https://www.bio-rad-antibodies.com/SDS/MCA1855PB | | |
| | 10041 | | |
| | | | |

For research purposes only

Related Products

Regulatory

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Pacific Blue® (MCA928PB)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

| North & Sout | th 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 | То |
| | Email: antibody_sales_us@bio | o-rad.com | ad.com Email: antibody_sales_uk@bio-rad.com | | Email: antibody_sales_de@bio-rad.comd_a | |
| bate | h/lot specific datasheet fo | r this product in | lease use our online sear | ch tool at: hio | rad-antibodies.com/datasheet | e |

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411858:221108'

Printed on 12 Aug 2023

© 2023 Bio-Rad Laboratories Inc | Legal | Imprint