

Monoclonal Antibody to CD45 / LCA (CD45RB) - Biotin

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| Alternate names: | L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200 |
| Catalog No.: | AM08045BT-N |
| Quantity: | 0.5 mg |
| Concentration: | 0.5 mg/ml |
| Background: | <p>CD45RB is an isoform of CD45 with exon 5 splicing (encodes B determinant). It is a 220 kD glycoprotein expressed on peripheral B cells, naïve T cells, thymocytes, weakly on macrophages, and dendritic cells. It plays a critical role in TCR and BCR signaling. As T cells become activated and progress from naïve to memory cells, CD45RB expression is downregulated. Additionally, functionally distinct CD4 T cell subsets, which secrete differing cytokine profiles, can be separated by CD45RB intensity. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4 and Thy-1.</p> <p>Distribution: Peripheral B cells, naïve T cells, most thymocytes, low density on macrophages and dendritic cells.</p> <p>Function: Phosphatase, T cell development and activation Structure: Phosphatase receptor (CD45 gene exon 5), 220 kD</p> |
| Uniprot ID: | P06800 |
| NCBI: | 10090 |
| Host / Isotype: | Rat / IgG2a |
| Clone: | C363.16A |
| Immunogen: | Cloned mouse Th2 cell lines. (Ref.1) |
| Format: | State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: Biotin |
| Applications: | Flow Cytometry. < / = 1 µg/10e6 cells. (Ref.1-3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody is specific to an exon B-dependent epitope of CD45 glycoprotein. Species: Mouse. Other species not tested. |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | 1. Bottomly, K., M. Luqman, L. Greenbaum, S. Carding, J. West, T. Pasqualini, and D.B. Murphy. 1989. Eur. J. Immunol. 19:617. |

For research and in vitro use only. Not for diagnostic or therapeutic work.
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Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



2. Hathcock, K.S., G. Laslo, H.B. Dickler, S.O. Sharrow, P. Johnson, I.S. Trowbridge, and R.J. Hodes. 1992. J. Immunol. 148:19.
3. Johnson, P., L. Greenbaum, K. Bottomly, and I.S. Trowbridge. 1989. J. Exp. Med. 169:1179.
4. Birkeland, M.L., et al. 1988. J. Mol. Cell. Immunol. 4:71.

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