

## Biotin Anti-Human CD45RA Antibody

|                           |                                |
|---------------------------|--------------------------------|
| <b>Catalog Number:</b>    | 109403, 109404                 |
| <b>Size:</b>              | 25 ug, 100 ug                  |
| <b>Target Name:</b>       | CD45RA, GP180, LY5, LCA, PTPRC |
| <b>Regulatory Status:</b> | RUO                            |

### PRODUCT DETAILS

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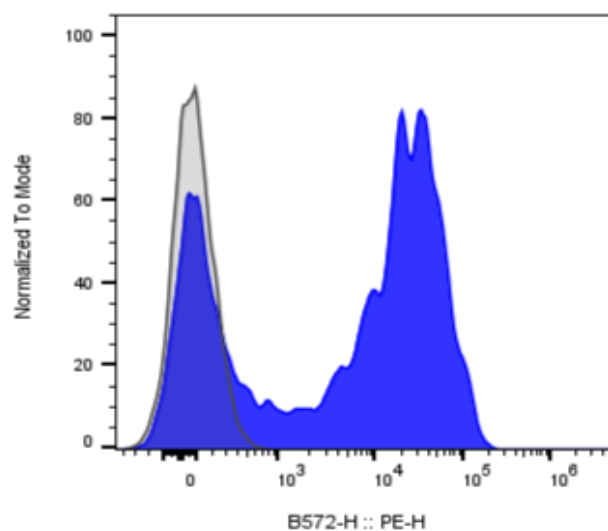
|                               |                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone:</b>                 | HI100                                                                                                                                                                                                                              |
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                                                                                     |
| <b>Reactivity:</b>            | Human                                                                                                                                                                                                                              |
| <b>Format:</b>                | Biotin                                                                                                                                                                                                                             |
| <b>Isotype:</b>               | Mouse IgG2b                                                                                                                                                                                                                        |
| <b>Antibody Type:</b>         | Monoclonal                                                                                                                                                                                                                         |
| <b>Formulation:</b>           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA                                                                                                                                              |
| <b>Protein Concentration:</b> | 0.2 mg/mL                                                                                                                                                                                                                          |
| <b>Storage and Handling:</b>  | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.                                                                                               |
| <b>Recommended Usage:</b>     | For flow cytometric staining, it is recommended to use less than 0.05 µg of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application |
| <b>Isotype Control:</b>       | 301619                                                                                                                                                                                                                             |
| <b>RRID:</b>                  | AB_3738902                                                                                                                                                                                                                         |

### BACKGROUND INFORMATION

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CD45RA is a 205–220 kDa isoform of the CD45 tyrosine phosphatase, expressed on naïve/resting T cells, medullary thymocytes, B cells, and monocytes. It is found on ~40–50% of peripheral CD4<sup>+</sup> T cells, ~50% of CD8<sup>+</sup> T cells, and subsets of B cells and monocytes. CD45RA enhances TCR and BCR signaling and associates with molecules like LPAP, CD1–CD4, and galectin-1. Its expression is regulated by cytokines and can be present on some activated T cells. CD45RA-specific antibodies (e.g., HI100) are widely used to identify naïve T cells and study CD4<sup>+</sup> suppressor/inducer subsets.

## PRODUCT DATA



Human peripheral blood lymphocytes stained with biotinylated Anti-Human CD45RA clone HI100 (blue histogram) or an isotype control (gray histogram), followed by SA-PE.

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