

Technical Data Sheet

Biotin Anti-Human CD45RA

Catalog Number: 109403, 109404
Size: 25 ug, 100 ug
Target Name: CD45RA, GP180, LY5, LCA, PTPRC
Regulatory Status: RUO

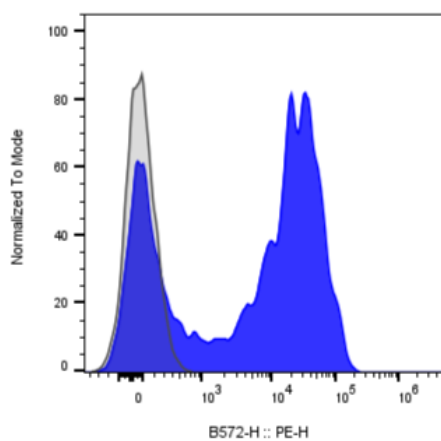
Product Details

Clone: HI100
Application: FC
Reactivity: Human
Format: Biotin
Isotype: Mouse IgG2b
Antibody Type: Monoclonal
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
Protein Concentration: 0.2 mg/mL
Storage and Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Recommended Usage: For flow cytometric staining, it is recommended to use less than 0.05 ug 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

Background Information

CD45RA is a 205–220 kDa isoform of the CD45 tyrosine phosphatase, expressed on naive/resting T cells, medullary thymocytes, B cells, and monocytes. It is found on ~40–50% of peripheral CD4+ T cells, ~50% of CD8+ 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 naive T cells and study CD4+ 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.