

Technical Data Sheet

iF647 Anti-Human CD45RA Antibody

Catalog Number: 109407, 109408

Size: 25 tests, 100 tests

Target Name: CD45RA, GP180, LY5, LCA, PTPRC

Regulatory Status: RUO

Product Details

Clone: HI100

Application: Flow Cytometry

Reactivity: Human

Format: iF647

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: Supplied at a lot-specific concentration.

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 5 µL 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. iF647 has an excitation max at 656 nm and an emission max at 670 nm.

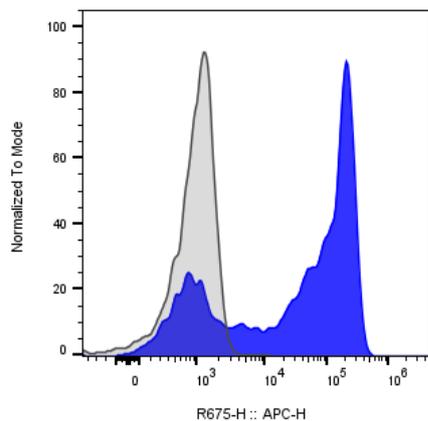
Excitation Laser: Red Laser (633 nm)

Isotype Control: [301607](#)

Background Information

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⁺ 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 naïve T cells and study CD4⁺ suppressor/inducer subsets.

Product Data



Human peripheral blood lymphocytes stained with iF647 Anti-Human CD45RA clone HI100 (blue histogram) or an isotype control (gray histogram).