

Technical Data Sheet

Anti-Human CD45RA

Catalog Number: 109401, 109402

Size: 100 ug, 500 ug

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

Regulatory Status: RUO

Product Details

Clone: HI100

Application: FC

Reactivity: Human

Format: Purified

Isotype: Mouse IgG2b

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Protein Concentration: 0.5 mg/mL

Storage and Handling: The antibody solution should be stored between 2°C and 8°C

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.