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InnoCyto Inc.

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Anti-Human CD45RA Antibody

Catalog Number:	109401, 109402
Size:	100 ug, 500 ug
Target Name:	CD45RA, GP180, LY5, LCA, PTPRC
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	HI100
Application:	Flow Cytometry
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
Recommended Usage:	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
Isotype Control:	301601

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.