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InnoCyto Inc.

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# iF700 Anti-Human CD45RA Antibody

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|---|---|
| **Catalog Number:** | 109415, 109416 |
| **Size:** | 25 tests, 100 tests |
| **Target Name:** | CD45RA, GP180, LY5, LCA, PTPRC |
| **Regulatory Status:** | RUO |

## PRODUCT DETAILS

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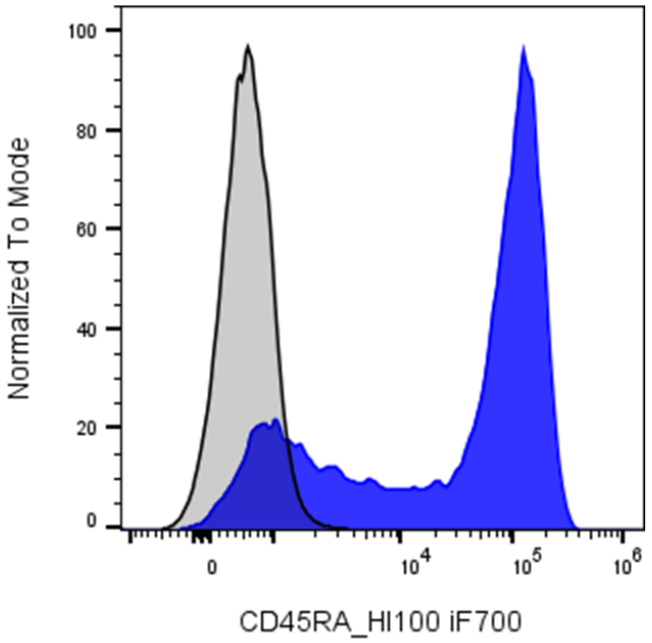
| **Clone:** | HI100 |
| **Application:** | Flow Cytometry |
| **Reactivity:** | Human |
| **Format:** | iF700 |
| **Isotype:** | Mouse IgG2b |
| **Antibody Type:** | Monoclonal |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA |
| **Protein Concentration:** | Supplied at a lot-specific concentration. |
| **Storage & 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. iF700 has an excitation max at 690 nm and an emission max at 710 nm. |
| **Excitation Laser:** | Red Laser (633 nm) |
| **Isotype Control:** | 301609 |
| **RRID:** | AB_3758921 |

## 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 Mononuclear Cells were stained with iF700 Anti-Human CD45RA clone HI100 (color-filled histogram) or an isotype control (gray histogram).

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