www.innocyto.com

InnoCyto Inc.

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iF647 Anti-Human CD45RA Antibody

Catalog Number:	109407, 109408
Size:	25 tests, 100 tests
Target Name:	CD45RA, GP180, LY5, LCA, PTPRC
Regulatory Status:	RUO

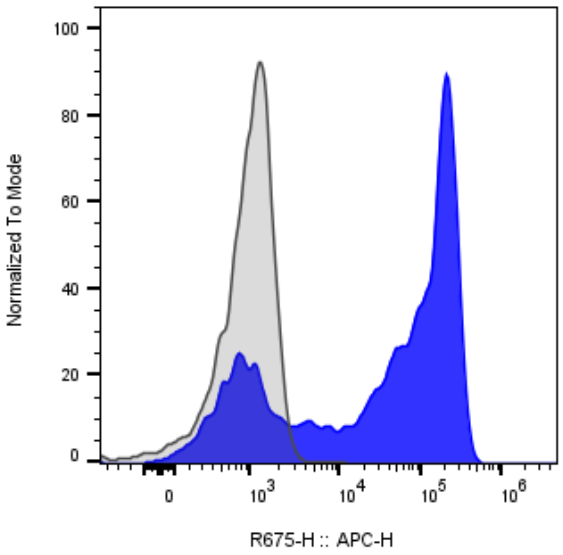
PRODUCT DETAILS

Clone:	HI100
Application:	Flow Cytometry
Reactivity:	Human, Chimpanzee
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
RRID:	AB_3738904
GeneID:	5788

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).

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