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Technical Data Sheet

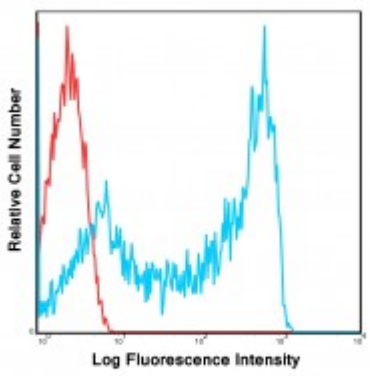
Anti-Human CD45RA FITC

Catalogue Number : 07121-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: HI100
Format/Conjugate: FITC
Concentration: 5 uL (1 ug)/test
Reactivity: Human
Laser: Blue (488nm)
Peak Emission: 520nm
Peak Excitation: 494nm
Filter: 530/30
Brightness (1=dim,5=brightest): 3
Isotype: Mouse IgG2b, kappa
Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.
Applications: FC



Human peripheral blood lymphocytes were stained with FITC HI100 with relevant isotype control in Red.

Description

The HI100 monoclonal antibody specifically reacts with human CD45RA, the 220 kDa isoform of the human leukocyte common antigen (LCA) found on 40-50% of the peripheral CD4+ T lymphocytes, half of the peripheral CD8+ T lymphocytes and some of the monocytes and B lymphocytes. The CD45RA antigen is expressed by naïve and activated T lymphocytes. The HI100 monoclonal antibody is used as a phenotypic marker to discriminate T lymphocytes subsets.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1.Knapp W;(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.

2. Barclay, A. N., Brown, M. H., Law, S. A. K. A., McKnight, A. J., Tomlinson, M. G., ; van der Merwe, P. A. (1997).;The leucocyte antigen factsbook. Academic Press.

3. Yamada, T., Zhu, D., Saxon, A., ; Zhang, K. (2002). CD45 controls interleukin-4-mediated IgE class switch recombination in human B cells through its function as a Janus kinase phosphatase.;Journal of Biological Chemistry,277(32), 28830-28835.

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