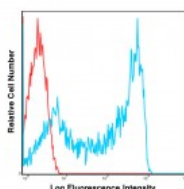




CD45RA Antibody [HI100] (FITC)

CATALOG NUMBER: 76-458



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

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	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.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
CONCENTRATION:	5 uL (1 ug) / test
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG2b, kappa
CONJUGATE:	FITC

Additional Info

ALTERNATE NAMES:	LCA, LY5, B220, CD45, L-CA, T200, CD45R, GP180, PTPRC
OFFICIAL SYMBOL:	PTPRC
GENE ID:	5788

Background

BACKGROUND:	The HI100 monoclonal antibody specifically reacts with human CD45RA, the 220 kDa isoform of the human
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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.

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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FOR RESEARCH USE ONLY

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