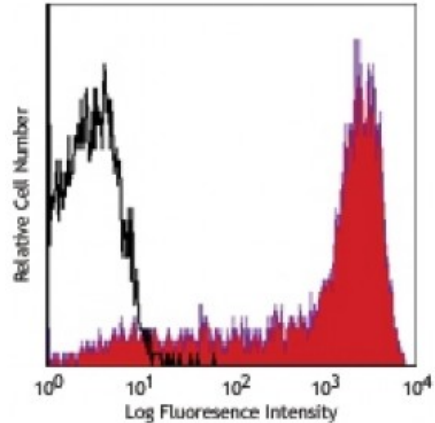


PerCP/Cy5.5 anti-human CD45RA

Catalog # / Size:	2120610 / 100 tests 2120605 / 25 tests
Clone:	HI100
Isotype:	Mouse IgG2b, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	IV N906
Concentration:	Lot-specific



Human peripheral blood lymphocytes stained with HI100 PerCP/Cy5.5

Applications:

- Applications:** Flow Cytometry
- Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

- Application Notes:** Additional reported applications (for relevant formats of this clone) include: inhibition of CD45 functions², immunohistochemical staining of frozen tissue sections³ and formalin-fixed paraffin-embedded tissue sections⁴, and immunofluorescence^{15,16}.

- Application References:**
1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
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 3. Weninger W, *et al.* 2003 *J. Immunol.* 170:4638. (IHC)
 4. Imanguli MM, *et al.* 2009. *Blood.* 113:3620 (IHC)
 5. Roque S, *et al.* 2007. *J. Immunol.* 178:8028. (FC) [PubMed](#)
 6. Smeltz RB. 2007. *J. Immunol.* 178:4786. (FC) [PubMed](#)
 7. Palendira U, *et al.* 2008. *Blood* (FC) [PubMed](#)
 8. Kuttruff S, *et al.* 2009. *Blood* 113:358. (FC) [PubMed](#)
 10. Thakral D, *et al.* 2008. *J. Immunol.* 180:7431. (FC) [PubMed](#)
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 12. Iannello A, *et al.* 2010. *J. Immunol.* 184:114. (FC) [PubMed](#)
 13. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 14. Guereau-de-Arellan M, *et al.* 2011. *Brain.* 134:3578. [PubMed](#)
 15. Canque B, *et al.* 2000. *Blood* 96:3748. (IF)
 16. Imanguli MM, *et al.* 2009. *Blood* 13:3620. (IF)

Description: CD45RA is a 205-220 kD single chain type I glycoprotein. It is an exon 4 splice variant of the tyrosine phosphatase CD45. The CD45RA isoform is expressed on resting/naïve T cells, medullary thymocytes, B cells and monocytes. CD45RA enhances both T cell receptor and B cell receptor signaling. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4. CD45 has also been reported to bind galectin-1. CD45 isoform expression can change in response to cytokines.

Antigen 1. Thomas M. 1989. *Annu. Rev. Immunol.* 7:339.
References: 2. Trowbridge I, *et al.* 1994. *Annu. Rev. Immunol.*12:85.