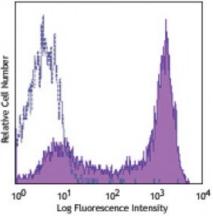
Product Data Sheet

PE/Cy7 anti-human CD45RA

Catalog # / Size:	2120625 / 25 tests 2120630 / 100 tests	
Clone:	HI100	
Isotype:	Mouse lgG2b, κ	Bel ative Cell Number
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	н
Workshop Number:	IV N906	ly H
Concentration:	Lot-specific	m



Human peripheral blood lymphocytes were stained with HI100 PE/Cy7 (filled histogram) or mouse IgG2b, κ PE/Cy7 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 microL to 5 microL per test . Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
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:	 Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. Yamada T, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:28830. (WB, Block) Weninger W, <i>et al.</i> 2003 <i>J. Immunol.</i> 170:4638. (IHC) Imanguli MM, <i>et al.</i> 2009. <i>Blood.</i> 113:3620 (IHC) Roque S, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:8028. (FC) PubMed Smeltz RB. 2007. <i>J. Immunol.</i> 178:4786. (FC) PubMed Smeltz RB. 2007. <i>J. Immunol.</i> 178:4786. (FC) PubMed Kuttruff S, <i>et al.</i> 2009. <i>Blood</i> 113:358. (FC) PubMed Kuttruff S, <i>et al.</i> 2009. <i>Blood</i> 113:358. (FC) PubMed Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (FC) PubMed Alanio C, <i>et al.</i> 2010. <i>Blood</i> 115:3718. (FC) PubMed Iannello A, <i>et al.</i> 2010. <i>J. Immunol.</i> 184:114. (FC) PubMed Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) Guereau-de-Arellan M, <i>et al.</i> 2011. <i>Brain.</i> 134:3578. PubMed Canque B, <i>et al.</i> 2000. <i>Blood</i> 96:3748. (IF) Imanguli MM, <i>et al.</i> 2009. <i>Blood</i> 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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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.

Antigen1. Thomas M. 1989. Annu. Rev. Immunol. 7:339.References:2. Trowbridge I, et al. 1994. Annu. Rev. Immunol.12:85.