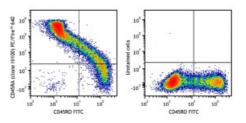
PE/Fire[™] 640 anti-human CD45RA

| Catalog # / Size: | 2120850 / 100 tests 2120845 / 25 tests |
|----------------------|--|
| Clone: | HI100 |
| lsotype: | Mouse IgG2b, к |
| Immunogen: | Human T cells from a T-ALL patient. |
| Reactivity: | Human, Other |
| Preparation: | The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 640 under optimal conditions. |
| 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 were stained with anti-human CD45RO FITC and anti-human CD45RA PE/Fire™ 640 (clone HI100) (left), or antihuman CD45RO FITC only (right).

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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |
| | * PE/Fire [™] 640 has a maximum ly excitation of 566 nm and a maximum a emission of 639 nm. S |
| Application Notes: | Additional reported applications (for h |

immunocytochemistry^{15,16}.

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Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and antihuman CD25 (clone M-A251) Spark YG[™] 581 (left) or antihuman CD4 FITC only (right).

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

| Application | Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New |
|--------------|--|
| References: | 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-F) Imanguli MM, <i>et al.</i> 2009. <i>Blood.</i> 113:3620 (IHC-P) 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 Alanio C, <i>et al.</i> 2010. <i>Blood</i> 115:3718. (FC) PubMed Alanio C, <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> 2009. <i>Blood</i> 13:3620. (ICC) Imanguli MM, <i>et al.</i> 2017. Nat. Methods. 14:865. (PG) Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG) |
| 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. <i>Annu. Rev. Immunol.</i> 7:339. |
| References: | 2. Trowbridge I, <i>et al.</i> 1994. <i>Annu. Rev. Immunol.</i> 12:85. |