Product Data Sheet

PerCP anti-human CD45RA

Catalog # / Size: 2120780 / 100 tests 2120775 / 25 tests

2120773723

Clone: HI100

Isotype: Mouse IgG2b, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP

and unconjugated antibody.

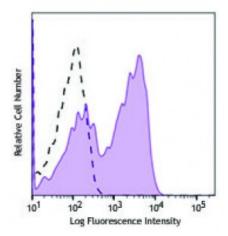
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

0.2% (W/V) BSA (Origin US

Workshop Number: IV N906

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD45RA (clone HI100) PerCP (filled histogram) or mouse IgG2b, κ PerCP 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. 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 has a maximum absorption of 482 nm and a maximum emission of 675

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.

2. Yamada T, et al. 2002. J. Biol. Chem. 277:28830. (WB, Block)

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

11. Alanio C, et al. 2010. Blood 115:3718. (FC) PubMed

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 References:

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