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# **Product Data Sheet**

Log Fluoresence Intensity

Human peripheral blood platelets stained with purified HI100, followed

by anti-mouse IgGs FITC

Application

Relative Cell Number

100

## Purified anti-human CD45RA

Catalog # / Size: 304102 / 100 µg

Clone: HI100

**Isotype:** Mouse IgG2b,  $\kappa$ 

Workshop Number: IV N906

Reactivity: Human, Cross-Reactivity: Chimpanzee

**Preparation:** The antibody was purified by affinity chromatography.

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

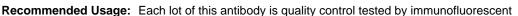
Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

## **Applications:**

Applications: FC - Quality tested IHC - Reported in the literature

CyTOF® - Validated



staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. 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 functions<sup>2</sup>, and immunohistochemical staining of frozen tissue sections<sup>3</sup> and formalin-fixed paraffin-embedded tissue sections<sup>4</sup>.

- 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)

  - Imanguli MM, et al. 2009. Blood. 113:3620 (IHC)
    Roque S, et al. 2007. J. Immunol. 178:8028. (FC) PubMed
    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.* PubMed.

### 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

Clone

to bind galectin-1. CD45 isoform expression can change in response to cytokines.

### Antigen References: 1. Thomas M. 1989. Annu. Rev. Immunol. 7:339.

2. Trowbridge I, et al. 1994. Annu. Rev. Immunol.12:85.

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Related Products: Product		

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Purified anti-human CD45	HI30	FC, IHC, WB, IF, CyTOF®
Purified anti-human CD45RO	UCHL1	FC, IHC, IP, WB
AKP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, WB, IHC
APC Goat anti-mouse IgG (minimal x-reactivity)	Poľy4053	FC
Biotin Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC, ELISA, IHC, IF, WB
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB
Purified Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC, ICC, IF, IHC, IP, WB
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer	•	FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified anti-human CD45RB	MEM-55	FC, IHC, IP, WB



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