

For Research Use Only

# Anti-Human CD1b Rabbit Recombinant Antibody

Catalog Number: 98579-2-RR



## Basic Information

Catalog Number:

98579-2-RR

Concentration:

100ug, 1000  $\mu$ g/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC069481

GeneID (NCBI):

910

UNIPROT ID:

P29016

Full Name:

CD1b molecule

Calculated MW:

333 aa, 37 kDa

Purification Method:

Protein A purification

CloneNo.:

251556D7

Recommended Dilutions:

FC: 0.25 ug per  $10^6$  cells in a 100  $\mu$ l suspension

## Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : human monocyte-derived mature dendritic cells, MOLT-4 cells

## Background Information

CD1b is a ~45 kDa transmembrane glycoprotein that belongs to the MHC class I-like CD1 family. It associates non-covalently with  $\beta$  2-microglobulin to form a functional antigen-presenting heterodimer. CD1b is expressed on cortical thymocytes, dendritic cells (PMID: 17593659). It has the capacity to bind self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on T cells (PMID: 30399491).

## Storage

Storage:

Store at 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

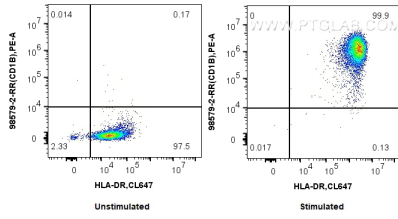
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

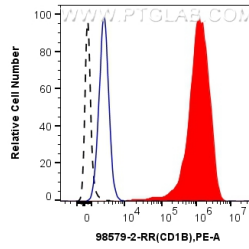
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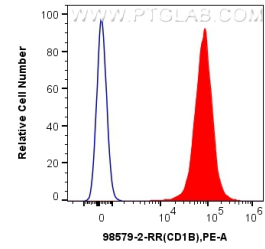
## Selected Validation Data



1x10<sup>6</sup> untreated monocytes or human monocyte-derived mature dendritic cells were surface stained with 0.25 ug Anti-Human CD1b Rabbit RecAb (98579-2-RR, Clone:251556D7) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with CoraLite® Plus 647 Anti-Human HLA-DR (L243). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10<sup>6</sup> human monocyte-derived mature dendritic cells were surface stained with 0.25 ug Anti-Human CD1B Rabbit RecAb (98579-2-RR, Clone: 251556D7) (red) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). 1x10<sup>6</sup> untreated human PBMCs were surface stained with 0.25 ug Anti-Human CD1B Rabbit RecAb (98579-2-RR, Clone: 251556D7) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (black, dashed). Cells



1x10<sup>6</sup> MOLT-4 cells were surface stained with 0.25 ug Anti-Human CD1b Rabbit RecAb (98579-2-RR, Clone: 251556D7) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.