

For Research Use Only

Anti-Human CD1a Rabbit Recombinant Antibody

Catalog Number: 98643-1-RR



Basic Information

Catalog Number:

98643-1-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC031645

GeneID (NCBI):

909

UNIPROT ID:

P06126

Full Name:

CD1a molecule

Calculated MW:

327 aa, 37 kDa

Purification Method:

Protein A purification

CloneNo.:

251904D12

Recommended Dilutions:

FC: 0.25 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

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

Background Information

CD1a is an antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells. During protein synthesis and maturation, CD1 family members bind endogenous lipids that are replaced by lipid or glycolipid antigens when the proteins are internalized and pass through endosomes, before trafficking back to the cell surface.

Storage

Storage:

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

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

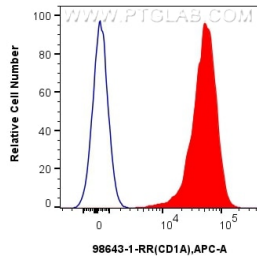
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

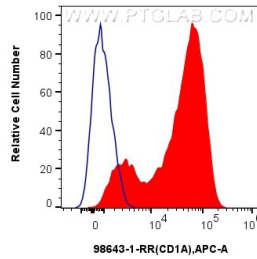
E: proteintech@ptglab.com
W: ptglab.com

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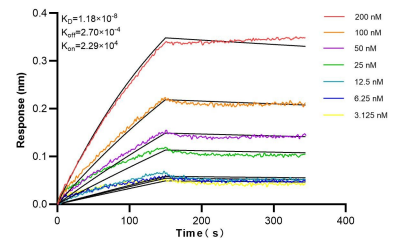
Selected Validation Data



1x10⁶ MOLT-4 cells were surface stained with 0.25 ug Anti-Human CD1a Rabbit RecAb (98643-1-RR, Clone: 251904D12) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and CoraLite647-conjugated F(ab')₂ Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7). Cells were not fixed.



1x10⁶ human monocyte-derived mature dendritic cells were surface stained with 0.25 ug Anti-Human CD1a Rabbit RecAb (98643-1-RR, Clone: 251904D12) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and CoraLite647-conjugated F(ab')₂ Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



Biolayer interferometry (BLI) kinetic assays of 98643-1-RR against Human CD1a were performed. The affinity constant is 11.8 nM.