

For Research Use Only

Anti-Mouse CD83 Rabbit Recombinant Antibody

Catalog Number: 98119-1-RR



Basic Information

Catalog Number:

98119-1-RR

Concentration:

100ug, 1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1387

GenBank Accession Number:

NM_009856.3

GeneID (NCBI):

12522

UNIPROT ID:

O88324

Full Name:

CD83 antigen

Calculated MW:

21 kDa

Purification Method:

Protein A purification

CloneNo.:

241002B7

Recommended Dilutions:

FC: 0.25 ug per 10⁶ cells in 100 μl suspension

Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : LPS treated mouse splenocytes,

Background Information

CD83 is a member of the immunoglobulin (Ig) superfamily, consisting of an extracellular V-type Ig-like domain, a transmembrane domain, and a cytoplasmic tail. CD83 is one of the most prominent markers for fully matured dendritic cells (DCs) (PMID: 17334966). It is also found on the surface of other activated hematopoietic cells, including lymphocytes, monocytes, macrophages, and neutrophils (PMID: 31231400; 17334966). CD83 regulates the maturation, activation, and homeostasis of numerous immune cells (PMID: 31231400; 32362900). CD83 can also be expressed as a soluble form. Soluble CD83 can bind to DCs and inhibit their maturation (PMID: 17334966; 12403928).

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:

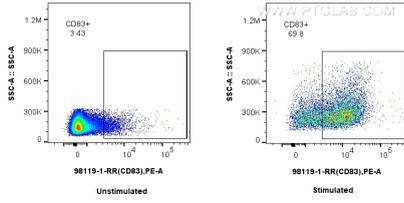
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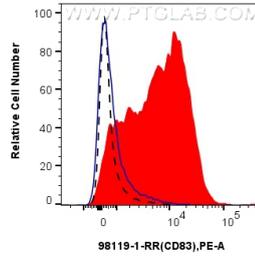
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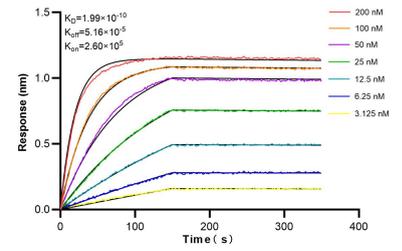
Selected Validation Data



1x10⁶ untreated or LPS-treated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD83 Rabbit Recombinant Antibody (98119-1-RR, Clone: 241002B7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



1x10⁶ LPS-treated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD83 Rabbit Recombinant Antibody (98119-1-RR, Clone: 241002B7) (red) or 0.25 ug Isotype Control (blue), and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). 1x10⁶ untreated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD83 Rabbit Recombinant Antibody (98119-1-RR, Clone: 241002B7) (black, dashed), and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were not



Bi-layer interferometry (BLI) kinetic assays of 98119-1-RR against Mouse CD83 were performed. The affinity constant is 0.199 nM.