

For Research Use Only

Anti-Mouse CD53 Rabbit Recombinant Antibody

Catalog Number: 98436-3-RR



Basic Information

Catalog Number:

98436-3-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2684

GenBank Accession Number:

NM_007651.3

GeneID (NCBI):

12508

UNIPROT ID:

Q61451

Full Name:

CD53 antigen

Calculated MW:

24 kDa

Purification Method:

Protein A purification

CloneNo.:

250105D10

Recommended Dilutions:

FC: 0.13 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : mouse splenocytes,

Background Information

CD53 is also named as MOX44 and Tetraspanin-25 (Tspan-25). Tetraspanin CD53 is a member of the tetraspanin superfamily expressed exclusively within the immune compartment (PMID: 32440787). T cells depend on the phosphatase CD45 to initiate T cell receptor signaling. CD53 is shown to stabilize CD45 on the membrane and is required for optimal phosphatase activity and subsequent Lck activation. Together, CD53 as a regulator of CD45 activity required for T cell immunity (PMID: 35767951). CD53 is a marker for positively selected CD4⁺ CD8⁺ thymocytes (PMID: 11867561).

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:

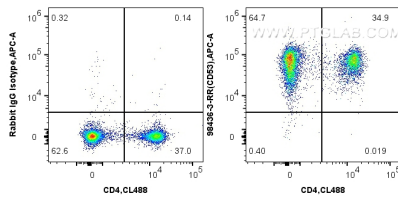
T: 4006900926

E: Proteintech-CN@ptglab.com

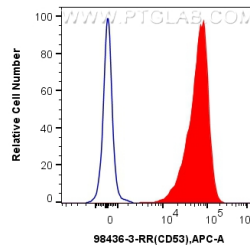
W: ptgcn.com

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Selected Validation Data



1x10⁶ mouse splenocytes were surface stained with 0.125 ug Anti-Mouse Cd53 Rabbit RecAb (98436-3-RR, Clone:250105D10) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with CoraLite® Plus 488 Anti-Mouse CD4. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10⁶ mouse splenocytes were surface stained with 0.125 ug Anti-Mouse Cd53 Rabbit RecAb (98436-3-RR, Clone: 250105D10) (red) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9)(blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.