

For Research Use Only

Anti-Mouse CD53 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98436-3-PBS



Basic Information

Catalog Number:

98436-3-PBS

Size:

1mg, 2 mg/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

Applications

Tested Applications:

FC

Species Specificity:

mouse

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 -80°C.

Storage Buffer:

PBS only, pH7.3

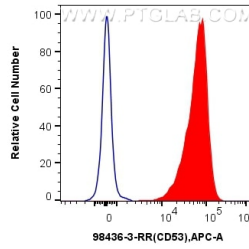
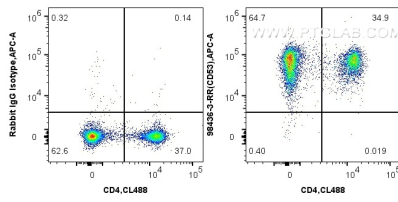
For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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. This data was developed using the same



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. This data was developed using the same antibody clone with 98436-3-PBS in a different storage buffer formulation.