

For Research Use Only

Anti-Human CD21 Rabbit Recombinant Antibody

Catalog Number: 98664-5-RR



Basic Information

Catalog Number:

98664-5-RR

Size:

100ug , 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2980

GenBank Accession Number:

NM_001877.5

GeneID (NCBI):

1380

ENSEMBL Gene ID:

ENSG00000117322

UNIPROT ID:

P20023-1

Full Name:

complement component (3d/Epstein Barr virus) receptor 2

Calculated MW:

113 kDa

Purification Method:

Protein A purification

CloneNo.:

252181G2

Recommended Dilutions:

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

Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : human PBMCs,

Background Information

CD21, also known as complement receptor type 2 (CR2), complement C3d receptor, and Epstein-Barr virus receptor, is a transmembrane protein that contains a small cytoplasmic domain, a transmembrane region and an extracellular domain consisting of 15 tandem short consensus repeat sequences (PMID: 6230668; 2551147). It is expressed on B cells, follicular dendritic cells, thymocytes and a subset of peripheral T cells (PMID: 26119182). CD21 binds complement fragments C3d, C3dg and iC3b and acts as a receptor for the Epstein-Barr virus (PMID: 7753047). On B cells, together with CD19 and CD81, CD21 forms a complex that functions as a co-receptor to the BCR (PMID: 7542009). It is involved in B cells activation and functions.

Storage

Storage:

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

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

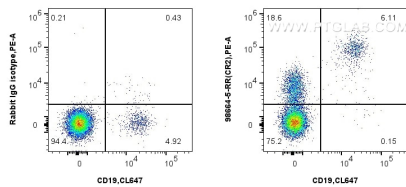
For technical support and original validation data for this product please contact:

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

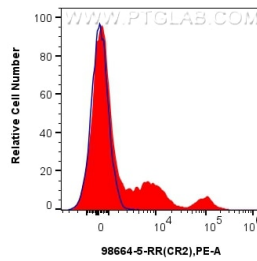
E: proteintech@ptglab.com
W: ptglab.com

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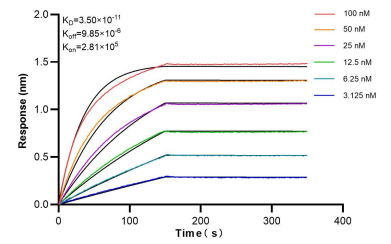
Selected Validation Data



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD21 Rabbit RecAb (98664-5-RR, Clone: 252181G2) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with CoraLite® Plus 647 Anti-Human CD19 (4G7) Mouse IgG2a Recombinant Antibody (CL647-65562, Clone: 4G7). Cells were not fixed. Lymphocytes were gated.



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD21 Rabbit RecAb (98664-5-RR, Clone: 252181G2) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. Lymphocytes were gated.



Biolayer interferometry (BLI) kinetic assays of 98664-5-RR against Human CD21 were performed. The affinity constant is 35.0 pM.