

For Research Use Only

Anti-Human CD21 (BU32) Mouse IgG2a Recombinant Antibody



Catalog Number: 65591-1-MR

Basic Information

Catalog Number: 65591-1-MR	GenBank Accession Number: BC136394	Purification Method: Protein A purification
Size: 100ug, 1 mg/ml	GeneID (NCBI): 1380	CloneNo.: BU32
Source: Mouse	ENSEMBL Gene ID: ENSG00000117322	
Isotype: IgG2a	Full Name: complement component (3d/Epstein Barr virus) receptor 2	
	Calculated MW: 1092 aa, 119 kDa	

Applications

Tested Applications:
FC

Species Specificity:
Human

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

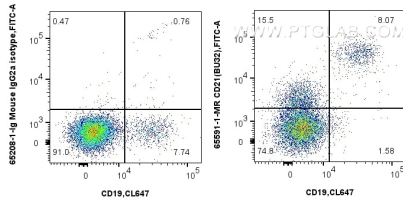
Storage:
Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.09% sodium azide.

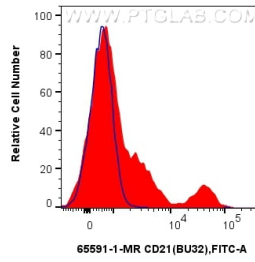
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD21 Mouse IgG2a Recombinant Antibody (65591-1-MR, Clone: BU32) or Mouse IgG2a Isotype Control (65208-1-Ig, Clone: C1.18.4) and CoraLite® 488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were then stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD21 Mouse IgG2a Recombinant Antibody (65591-1-MR, Clone: BU32) (red) or Mouse IgG2a Isotype Control (65208-1-Ig, Clone: C1.18.4) (blue) and CoraLite® 488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were not fixed. Lymphocytes were gated.