

For Research Use Only

FcZero-rAb™ PE-Cyanine7 Anti-Human CD21 (BU32) Rabbit IgG Recombinant Antibody

Catalog Number: PY7-FcA65591



Basic Information

Catalog Number:	PY7-FcA65591	GenBank Accession Number:	BC136394	Purification Method:	Protein A purification
Concentration:	100 tests, 5 µl/test	GeneID (NCBI):	1380	Clone No.:	BU32
Source:	Rabbit	ENSEMBL Gene ID:	ENSG00000117322	Recommended Dilutions:	FC: 5 µl per 10 ⁶ cells in a 100 µl suspension
Isotype:	IgG	UNIPROT ID:	P20023	Excitation/Emission maxima wavelengths:	496 nm, 565 nm / 778 nm
		Full Name:	complement component (3d/Epstein Barr virus) receptor 2		
		Calculated MW:	1092 aa, 119 kDa		

Applications

Tested Applications:	FC	Positive Controls:	
Species Specificity:	human	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

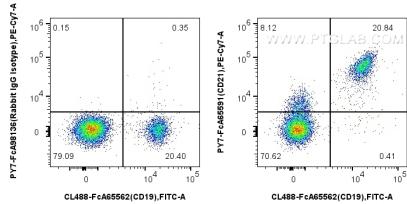
Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com

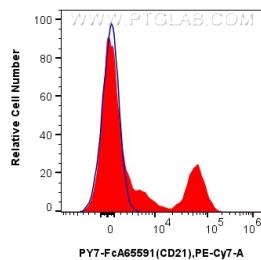
W: ptgcn.com

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Selected Validation Data



1x10⁶ human PBMCs were surface stained with FcZero-rAb™ CoraLite® Plus 488 Anti-Human CD19 (4G7) or FcZero-rAb™ PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9), and 5 μ l PE-Cyanine7 Anti-Human CD21 (BU32) Rabbit IgG RecAb (PY7-FcA65591, Clone:BU32). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.



1x10⁶ human PBMCs were surface stained with 5 μ l PE-Cyanine7 Anti-Human CD21 (BU32) Rabbit IgG RecAb (PY7-FcA65591, Clone:BU32) (red) or FcZero-rAb™ PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent (PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.