

For Research Use Only

FcZero-rAb™ PE-Cyanine7 Anti-Human CD19 (4G7) Rabbit IgG Recombinant Antibody

Catalog Number: PY7-FcA65562



Basic Information

Catalog Number:	PY7-FcA65562	GenBank Accession Number:	BC006338	Purification Method:	Protein A purification
Concentration:	100 tests, 5 µl/test	GeneID (NCBI):	930	Clone No.:	4G7
Source:	Rabbit	ENSEMBL Gene ID:	ENSG00000177455	Recommended Dilutions:	FC: 5 µl per 10 ⁶ cells in a 100 µl suspension
Isotype:	IgG	UNIPROT ID:	P15391	Excitation/Emission maxima wavelengths:	450-500 nm / 778 nm
		Full Name:	CD19 molecule		
		Calculated MW:	556 aa, 61 kDa		

Applications

Tested Applications:	Positive Controls:
FC	FC : human PBMCs,
Species Specificity:	

human

Background Information

CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).

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:

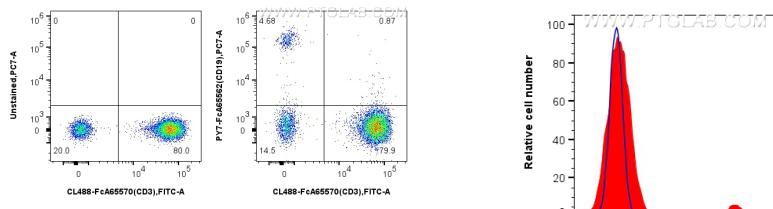
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1×10^6 human PBMCs were surface stained with Coralite® Plus 488 Anti-Human CD3 (UCHT1) and 5 μ l PE-Cyanine7 Anti-Human CD19 (4G7) Rabbit IgG RecAb (PY7-FcA65562, Clone:4G7), or unstained cells. Cells were incubated with MonoZero™ Monocytes blocking Reagent(PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.

1×10^6 human PBMCs were surface stained with 5 μ l PE-Cyanine7 Anti-Human CD19 (4G7) Rabbit IgG RecAb (PY7-FcA65562, Clone:4G7) (red), or unstained cells (blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent(PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.