

For Research Use Only

FcZero-rAb™ PE-Cyanine5.5 Anti-Human CD8 (SK1) Rabbit IgG Recombinant Antibody

Catalog Number: PY5P5-FcA65630



Basic Information

Catalog Number:	PY5P5-FcA65630	GenBank Accession Number:	BC025715	Purification Method:
Size:	100 tests, 5 µl/test	GenID (NCBI):	925	Protein A purification
Source:	Rabbit	ENSEMBL Gene ID:	ENSG00000153563	Clone No.:
Isotype:	IgG	UNIPROT ID:	P01732	SK1
		Full Name:	CD8a molecule	Recommended Dilutions:
		Calculated MW:	235 aa, 26 kDa	FC: 5 µl per 10 ⁶ cells in a 100 µl suspension
				Excitation/Emission maxima wavelengths:
				488 nm, 561 nm / 692 nm

Applications

Tested Applications:	Positive Controls:
FC	FC: human PBMCs,
Species Specificity:	human, monkey, non-human primates

Background Information

CD8 is a transmembrane glycoprotein composed of two disulfide-linked chains. It can be present as a homodimer of CD8 α or as a heterodimer of CD8 α and CD8 β (PMID: 3264320; 8253791). CD8 is found on most thymocytes. The majority of class I-restricted T cells express mostly the CD8 $\alpha\beta$ heterodimer while CD8 $\alpha\alpha$ homodimers alone have been found on some gut intraepithelial T cells, on some T cell receptor (TCR) $\gamma\delta$ T cells and on NK cells (PMID: 2111591; 1831127; 8420975). CD8 acts as a co-receptor that binds to MHC class-I and participates in cytotoxic T cell activation (PMID: 8499079). During T cell development, CD8 is required for positive selection of CD4-/CD8+ T cells (PMID: 1968084).

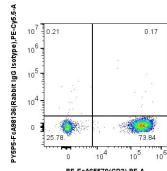
Storage

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

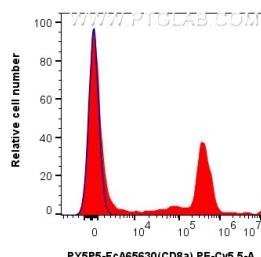
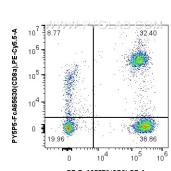
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Selected Validation Data



1×10^6 human PBMCs were surface stained with FcZero-rAb™ PE Anti-Human CD3, and 5 μ l PE-Cyanine5.5 Anti-Human CD8 (SK1) Rabbit IgG RecAb (PY5P5-FcA65630, Clone: SK1) or FcZero-rAb™ PE-Cyanine5.5 Rabbit IgG Isotype Control Recombinant Antibody (PY5P5-FcA98136, Clone: 240953C9). 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-Cyanine5.5 Anti-Human CD8 (SK1) Rabbit IgG RecAb (PY5P5-FcA65630, Clone: SK1) (red) or FcZero-rAb™ PE-Cyanine5.5 Rabbit IgG Isotype Control Recombinant Antibody (PY5P5-FcA98136, Clone: 240953C9)(blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent(PF00020) prior to staining. Cells were not fixed. Lymphocytes were gated.