

For Research Use Only

Anti-Human CD8a Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98470-2-PBS



Basic Information

Catalog Number: 98470-2-PBS	GenBank Accession Number: NM_001145873.1	Purification Method: Protein A purification
Concentration: 1mg, 3 mg/ml	GeneID (NCBI): 925	CloneNo.: 243018F10
Source: Rabbit	ENSEMBL Gene ID: ENSG00000153563	
Isotype: IgG	UNIPROT ID: P01732-1	
Immunogen Catalog Number: EG0819	Full Name: CD8a molecule	
	Calculated MW: 26 kDa	

Applications

Tested Applications:
IHC, FC

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

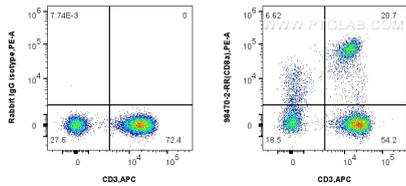
T: 4006900926

E: Proteintech-CN@ptglab.com

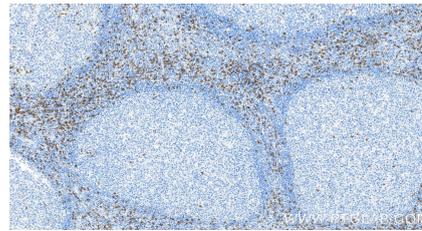
W: ptgcn.com

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

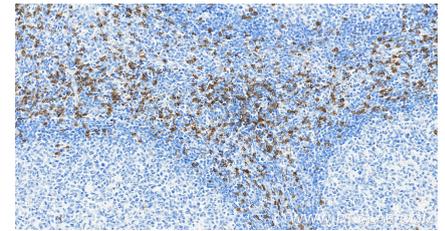
Selected Validation Data



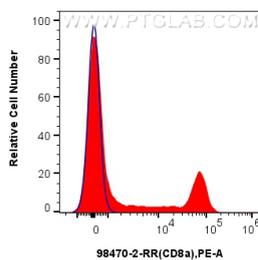
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit RecAb (98470-2-RR, Clone: 243018F10) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody (APC-65569, Clone: OKT3). Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody clone



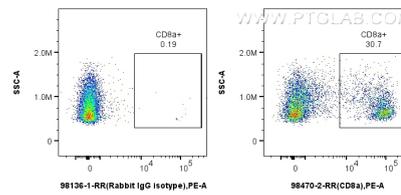
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98470-2-RR (CD8a antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 98470-2-PBS in a different storage buffer formulation.



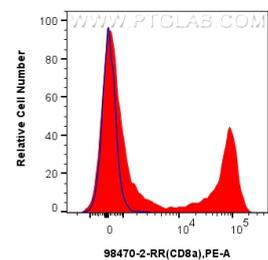
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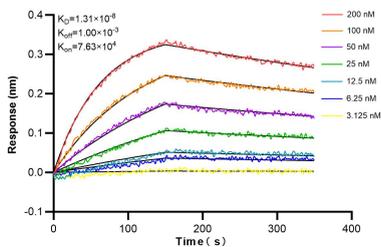
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit RecAb (98470-2-RR, Clone: 243018F10) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody clone with 98470-2-PBS in a different storage buffer formulation.



1x10⁶ cynomolgus PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit RecAb (98470-2-RR, Clone: 243018F10) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-conjugated Goat Anti-Rabbit IgG. Cells were not fixed. This data was developed using the same antibody clone with 98470-2-PBS in a different storage buffer formulation.



1x10⁶ cynomolgus PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit RecAb (98470-2-RR, Clone: 243018F10) (red) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-conjugated Goat Anti-Rabbit IgG. Cells were not fixed. This data was developed using the same antibody clone with 98470-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98470-2-RR against Human CD8a were performed. The affinity constant is 13.1 nM.