

For Research Use Only

Anti-Human CD8a Rabbit Recombinant Antibody

Catalog Number: 98470-2-RR



Basic Information

Catalog Number:

98470-2-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0819

GenBank Accession Number:

NM_001145873.1

GeneID (NCBI):

925

ENSEMBL Gene ID:

ENSG00000153563

UNIPROT ID:

P01732-1

Full Name:

CD8a molecule

Calculated MW:

26 kDa

Purification Method:

Protein A purification

CloneNo.:

243018F10

Recommended Dilutions:

IHC: 1:2000-1:8000

FC: 0.25 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, FC

Species Specificity:

human, monkey, non-human primates

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC: human tonsillitis tissue,

FC: human PBMCs, cynomolgus PBMCs

Background Information

CD8 is a transmembrane glycoprotein composed of two disulfide-linked chains. It can be present as a homodimer of CD8a or as a heterodimer of CD8a and CD8β (PMID: 3264320; 8253791). CD8 is found on most thymocytes. The majority of class I-restricted T cells express mostly the CD8aβ heterodimer while CD8aa homodimers alone have been found on some gut intraepithelial T cells, on some T cell receptor (TCR) γδ 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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

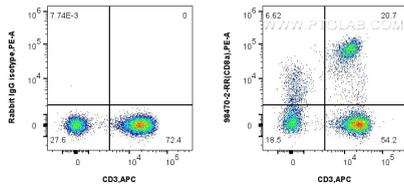
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

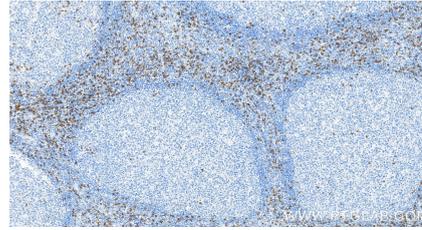
E: proteintech@ptglab.com
W: ptglab.com

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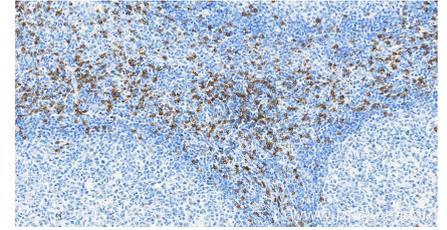
Selected Validation Data



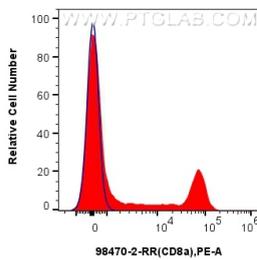
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit RecAb (98470-2-RR, Clone: 243018F10) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant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



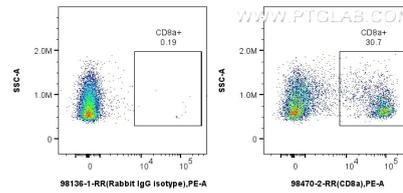
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98470-2-RR (CD8a antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



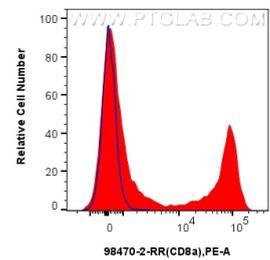
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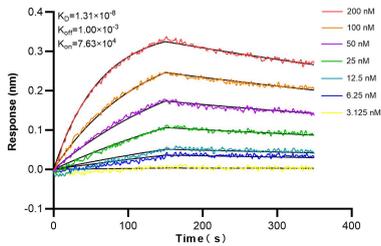
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit RecAb (98470-2-RR, Clone: 243018F10) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. Lymphocytes were gated.



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.



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.



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