

For Research Use Only

Anti-Human CD8a Rabbit scFv Antibody

Catalog Number: SF98470-2-RR



Basic Information

Catalog Number: SF98470-2-RR	GenBank Accession Number: NM_001145873.1	Purification Method: Affinity purification
Size: 100ug , Concentration: 1000 ug/ml by 925 Nanodrop;	GeneID (NCBI): 925	CloneNo.: 243018F10
Source: Rabbit	ENSEMBL Gene ID: ENSG00000153563	Recommended Dilutions: FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Type: scFv	Full Name: CD8a molecule	
Immunogen Catalog Number: EG0819	Calculated MW: 26 kDa	

Applications

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

Background Information

CD8 is a transmembrane glycoprotein composed of two disulfide-linked chains. It can be present as a homodimer of CD8α or as a heterodimer of CD8α and CD8β (PMID: 3264320; 8253791). CD8 is found on most thymocytes. The majority of class I-restricted T cells express mostly the CD8αβ heterodimer while CD8αα 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

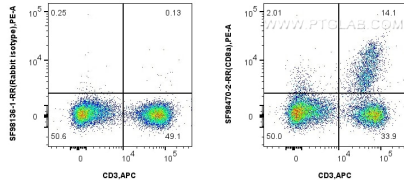
Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin300, pH7.3

*** 20ul sizes contain 0.1% BSA

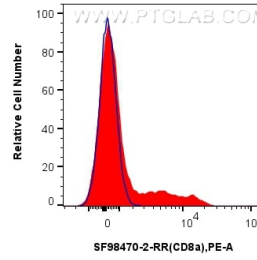
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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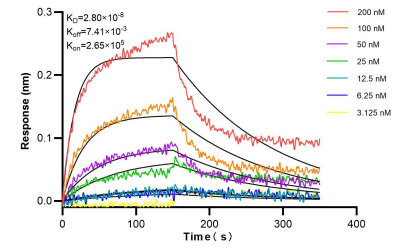
Selected Validation Data



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit scFv Antibody (SF98470-2-RR, Clone: 243018F10) or 0.25 ug Rabbit scFv Isotype Control (SF98136-1-RR, Clone: 240953C9), and PE Anti-6^{His}, His-Tag Rabbit RecAb (PE-FcA98450, Clone: 251107A1). Cells were then stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody (APC-65569, Clone: OKT3). Cells were not fixed.



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8a Rabbit scFv Antibody (SF98470-2-RR, Clone: 243018F10) (red) or 0.25 ug Rabbit scFv Isotype Control (SF98136-1-RR, Clone: 240953C9) (blue), and PE Anti-6^{His}, His-Tag Rabbit RecAb (PE-FcA98450, Clone: 251107A1). Cells were not fixed.



Bilayer interferometry (BLI) kinetic assays of SF98470-2-RR against Human CD8a were performed. The affinity constant is 28.0 nM.