

For Research Use Only

Anti-Human CD4 Rabbit scFv Antibody

Catalog Number: SF98042-1-RR



Basic Information

Catalog Number: SF98042-1-RR	GenBank Accession Number: BC025782	Purification Method: Affinity purification
Size: 100ug , Concentration: 1000 µg/ml by 920 Nanodrop;	GeneID (NCBI): ENSEMBL Gene ID: ENSG00000010610	CloneNo.: 240427E12
Source: Rabbit	Full Name: CD4 molecule	Recommended Dilutions: FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Type: scFv	Calculated MW: 55 kDa	
Immunogen Catalog Number: EG0333		

Applications

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

Background Information

CD4 is a 55-kDa transmembrane glycoprotein expressed on T helper cells, the majority of thymocytes, monocytes, macrophages, and dendritic cells (PMID: 9304802; 12213222). CD4 is an accessory protein for MHC class-II antigen/T-cell receptor interaction. It plays an important role in T helper cell development and activation (PMID: 9539765; 3112582). CD4 serves as a receptor for the human immunodeficiency virus (HIV) (PMID: 9304802).

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% Proclin 300, pH7.3

*** 20ul sizes contain 0.1% BSA

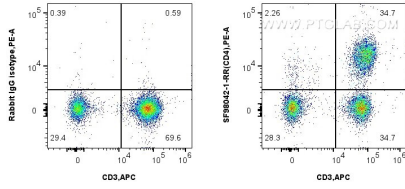
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
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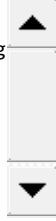
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W: ptglab.com

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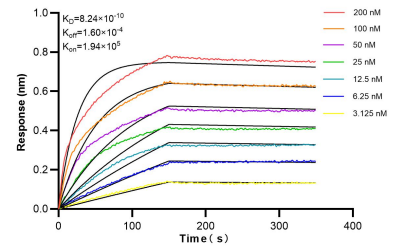
Selected Validation Data



1×10^6 human PBMCs were surface stained with 0.25 μ g CD4 Recombinant Antibody (SF98042-1-RR, Clone: 240427E12) or 0.25 μ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE Anti-GGGGS Linker Rabbit Recombinant Antibody (PE-98262, Clone: 242306C8). 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.



Purity of Recombinant ScFv antibody (Cat No.: SF98042-1-RR) was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and condition and stained using Coomassie blue.



Bi-layer interferometry (BLI) kinetic assays of SF98042-1-RR against Human CD4 were performed. The affinity constant is 0.824 nM.