For Research Use Only

Anti-Human CD3 Mouse scFv Antibody

Catalog Number:SF65570-1-MR

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Basic Information

Catalog Number:
SF65570-1-MR

Source:
Mouse

Type:
scFv

GenBank Accession Number:
BC049847

GeneID (NCBI):
916

ENSEMBL Gene ID:
ENSG00000198851

Full Name:
CD3e molecule, epsilon (CD3-TCR complex)

Calculated MW:
207 aa, 23 kDa

Purification Method:
Affinity purification

CloneNo.:
UCHT1

Recommended Dilutions:
FC: 0.25 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
FC

Species Specificity:
human

Positive Controls:

FC : human PBMCs,

Background Information

CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction (PMID: 15885124). CD3 is composed of CD3 γ, δ, ε, and ζ chains (PMID: 1826255). It is expressed by thymocytes in a developmentally regulated manner, T cells, and some NK cells (PMID: 3289580). The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction (PMID: 11985657).

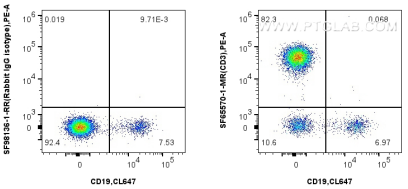
Storage

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, pH 7.3.

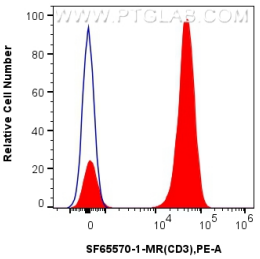
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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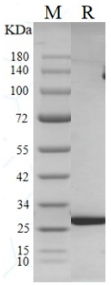
Selected Validation Data



1x10^6 human PBMCs were surface stained with 0.25 ug Anti-Human CD3 Mouse scFv Antibody (SF65570-1-MR, Clone: UCHT1) 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 CoraLite® Plus 647 Anti-Human CD19 (4G7) Mouse IgG2a Recombinant Antibody (CL647-65562, Clone: 4G7). Cells were not fixed. Lymphocytes



1x10^6 human PBMCs were surface stained with 0.25 ug Anti-Human CD3 Mouse scFv Antibody (SF65570-1-MR, Clone: UCHT1) (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. Lymphocytes were gated.



Purity of Recombinant ScFv antibody(Cat No.:SF65570-1-MR) was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and condition and stained using Coomassie blue.