

For Research Use Only

LE/AF Purified Mouse Anti-Human CD3 (OKT3) Antibody

Catalog Number: BK00002



Basic Information

Catalog Number:

BK00002

Size:

100mg, Concentration: 3 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

BC049847

GeneID (NCBI):

916

ENSEMBL Gene ID:

ENSG00000198851

UNIPROT ID:

P07766

Full Name:

CD3e molecule, epsilon (CD3-TCR complex)

Calculated MW:

207 aa, 23 kDa

Purification Method:

Protein A purification

CloneNo.:

OKT3

Recommended Dilutions:

Functional Assay: Assay Dependent
FC: 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC, Functional Assay

Species Specificity:

human

Positive Controls:

Functional Assay : human PBMCs,

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 CD3γ, 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:

Sterile PBS, pH7.4

***** 20ul sizes contain 0.1% BSA**

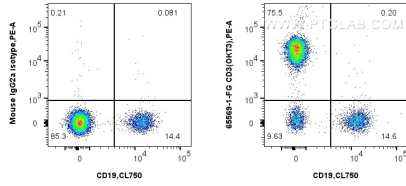
For technical support and original validation data for this product please contact:

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

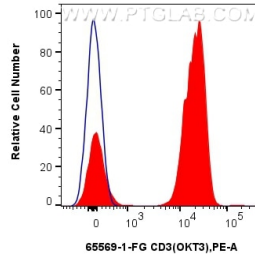
E: proteintech@ptglab.com
W: ptglab.com

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

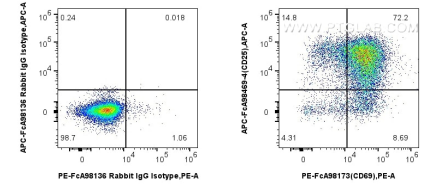
Selected Validation Data



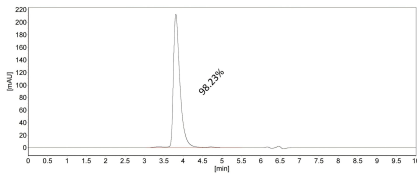
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD3 (OKT3) Mouse IgG2a RecAb (BK00002, Clone: OKT3) or 0.25 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4), and PE-conjugated Goat Anti-Mouse IgG. Cells were then stained with CoraLite® Plus 750 Anti-Human CD19 Rabbit Recombinant Antibody (CL750-98560, Clone: 250499A2). Cells were not fixed. Lymphocytes were gated.



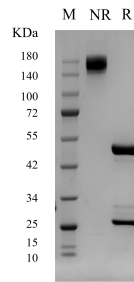
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD3 (OKT3) Mouse IgG2a RecAb (BK00002, Clone: OKT3) (red) or 0.25 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue), and PE-conjugated Goat Anti-Mouse IgG. Cells were not fixed. Lymphocytes were gated.



1x10⁶ untreated or anti-CD3 (BK00002, 2 ug/ml) and anti-CD28 (BK00001, 10 ug/ml) treated human PBMCs were surface stained with 5 ul FcZero-rAb® PE Anti-Human CD69 Rabbit Recombinant Antibody (PE-FcA98173, Clone: 241552F1) and 5 ul FcZero-rAb® APC Anti-Human CD25/IL-2RA Rabbit Recombinant Antibody (APC-FcA98469-4, Clone: 253320A1). Cells were not fixed.



Purity of LE/AF Purified Mouse Anti-Human CD3 (OKT3) Antibody (Cat. No. BK00002) was greater than 95% as determined by SEC-HPLC.



Purity of LE/AF Purified Mouse Anti-Human CD3 (OKT3) Antibody (Cat. No. BK00002) was determined by SDS-PAGE. The antibody was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.