

For Research Use Only

Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody, Functional Grade



Catalog Number: 65569-1-FG

Basic Information

Catalog Number:

65569-1-FG

Size:

100mg, 3 mg/ml

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 : Recombinant protein,

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 -80°C. Stable for one year after shipment.

Storage Buffer:

PBS only, low endotoxin, pH7.4

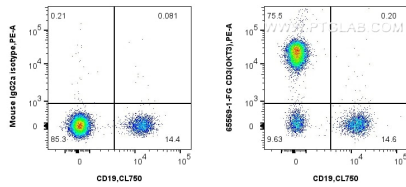
For technical support and original validation data for this product please contact:

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

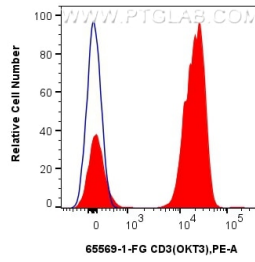
E: proteintech@ptglab.com
W: ptglab.com

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

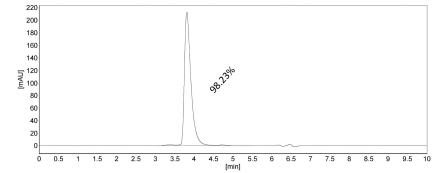
Selected Validation Data



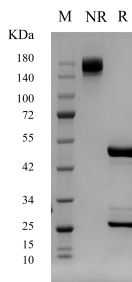
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD3 (OKT3) Mouse IgG2a RecAb (65569-1-FG, Clone: OKT3) or 0.25 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4), and PE-conjugated Goat Anti-Mouse IgG. Cells were then stained with CoraLite® Plus 750 Anti-Human CD19 Rabbit 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 (65569-1-FG, 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.



The purity of Human CD3 GMP Recombinant monoclonal antibody (Cat. No. 65569-1-FG) was greater than 95% as determined by SEC-HPLC.



Purity of Human CD3 GMP Recombinant Monoclonal antibody (65569-1-FG) 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.