For Research Use Only

Anti-Human CD3 Mouse Recombinant Antibody, PBS Only

Catalog Number:98319-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
98319-2-PBS

Size:
1mg , 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.:
SP34

Applications

Tested Applications:
IHC, FC

Species Specificity:
human, monkey, non-human primates

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).

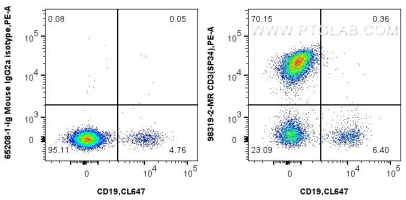
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

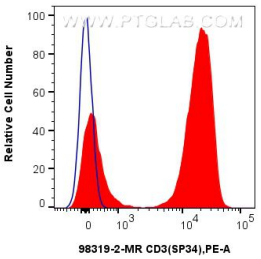
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

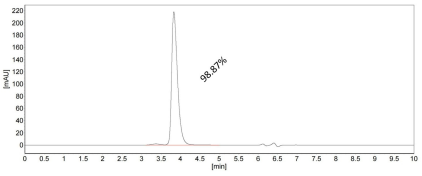
Selected Validation Data



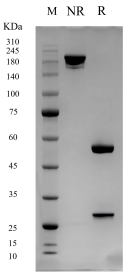
1x10^6 human PBMCs were surface stained with 0.25 ug Anti-Human CD3 Mouse RecAb (98319-2-MR, Clone: SP34) or 0.25 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4), and PE-conjugated Goat Anti-Mouse IgG. Cells were then stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody clone with 98319-2-PBS in a different storage buffer formulation.



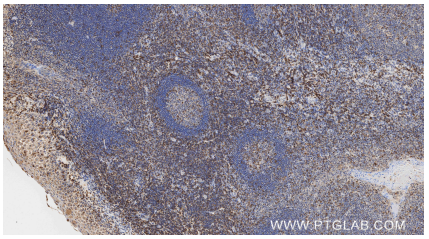
1x10^6 human PBMCs were surface stained with 0.25 ug Anti-Human CD3 Mouse RecAb (98319-2-MR, Clone: SP34) (red) or 0.25 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue), and PE-conjugated Goat Anti-Mouse IgG. Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody clone with 98319-2-PBS in a different storage buffer formulation.



The purity of Human CD3 Recombinant monoclonal antibody (Cat. No. 98319-2-PBS) was greater than 95% as determined by SEC-HPLC.



Purity of GMP Monoclonal Anti-Human CD3 Antibody (98319-2-PBS) 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.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98319-2-MR (CD3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 98319-2-PBS in a different storage buffer formulation.