

For Research Use Only

# Anti-Human CD99 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98174-1-PBS



## Basic Information

<b>Catalog Number:</b> 98174-1-PBS	<b>GenBank Accession Number:</b> BC021620	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1mg, 2 mg/ml	<b>GeneID (NCBI):</b> 4267	<b>CloneNo.:</b> 241737H1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P14209	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD99 molecule	
	<b>Calculated MW:</b> 19 kDa, 16 kDa, 17 kDa	

## Applications

**Tested Applications:**  
FC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

98174-1-PBS targets CD99 as part of a matched antibody pair:

MP01403-1: 98174-1-PBS capture and 84580-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

CD99, also known as MIC2, is a heavily O-glycosylated transmembrane protein involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 is broadly distributed on many cell types, with particularly strong expression on human cortical thymocytes, Ewing's sarcoma cells and peripheral primitive neuroectodermal tumors (PMID: 9794396; 16984917). In normal cells, CD99 has been functionally implicated in cell adhesion, migration, apoptosis, differentiation, activation, and proliferation of lymphocytes and monocyte extravasation and transport of several transmembrane proteins (PMID: 16984917).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

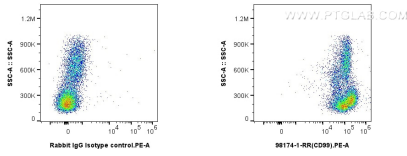
For technical support and original validation data for this product please contact:

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

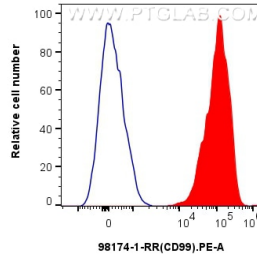
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

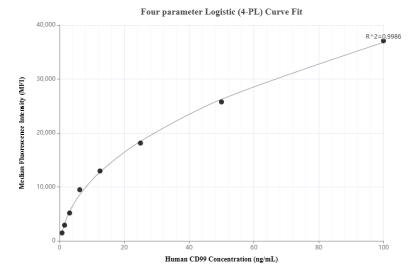
## Selected Validation Data



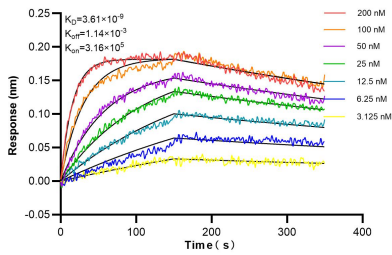
1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD99 Rabbit Recombinant Antibody (98174-1-RR, Clone:241737H1) or 0.25 ug Isotype Control, and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98174-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD99 Rabbit Recombinant Antibody (98174-1-RR, Clone:241737H1) (red) or 0.25 ug Isotype Control (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98174-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01403-1, CD99 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 98174-1-PBS. Detection antibody: 84580-1-PBS. Standard: RP02321. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 98174-1-RR against Human CD99 were performed. The affinity constant is 3.61 nM.