

For Research Use Only

# Anti-Human CLEC12A Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98083-1-PBS



## Basic Information

<b>Catalog Number:</b> 98083-1-PBS	<b>GenBank Accession Number:</b> BC126291	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1mg, 2 mg/ml	<b>GeneID (NCBI):</b> 160364	<b>CloneNo.:</b> 240791B7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q5QGZ9	
<b>Isotype:</b> IgG	<b>Full Name:</b> C-type lectin domain family 12, member A	
	<b>Calculated MW:</b> 31 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
human

## Background Information

CLEC12A, also known as CD371, M1CL, DCAL-2 or CLL-1, is a type II transmembrane glycoprotein and a member of the C-type lectin superfamily (PMID: 30401586). This protein, which contains a single C-type lectin-like domain and a cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM), is related to LOX-1 and Dectin-1 and is variably spliced and highly N-glycosylated (PMID: 14739280). Its ITIM sequence recruits the tyrosine phosphatases SHP-1 and SHP-2 to negatively regulate Syk signaling. In humans, CLEC12A is mainly expressed on myeloid cells, being found on monocytes, granulocytes, macrophages and DC subsets, and at lower levels on CD4+ T cells (PMID: 32477350). The observed molecular weight of CLEC12A is between 40 and 75 kDa, which is much higher than the predicted molecular weight due to glycosylation (PMID: 14739280).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

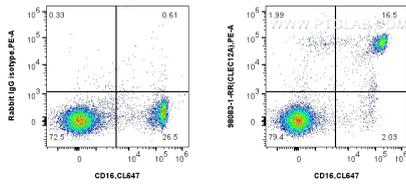
T: 4006900926

E: Proteintech-CN@ptglab.com

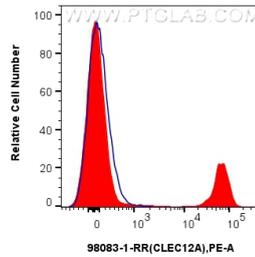
W: ptgcn.com

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

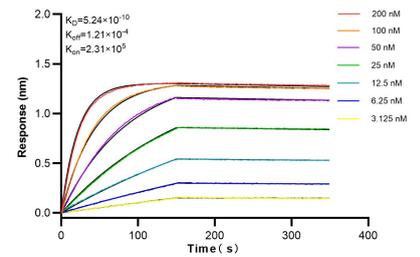
## Selected Validation Data



1x10<sup>6</sup> human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CLEC12A Rabbit Recombinant Antibody (98083-1-RR, Clone:240791B7), or Isotype Control and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were then stained with CoraLite® Plus 647 Anti-Human CD16. Cells were incubated with FC Receptor Block prior to fixing and staining. Cells were not fixed. This data was developed using the same antibody clone with 98083-1-PBS in a



1x10<sup>6</sup> human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CLEC12A Rabbit Recombinant Antibody (98083-1-RR, Clone:240791B7)(red), or 0.25 ug Isotype Control(blue) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to fixing and staining. Cells were not fixed. This data was developed using the same antibody clone with 98083-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 98083-1-RR against Human CLEC12A were performed. The affinity constant is 0.524 nM.