

For Research Use Only

Anti-Human CLEC12A Rabbit Recombinant Antibody

Catalog Number: 98083-1-RR



Basic Information

Catalog Number:

98083-1-RR

Size:

100ug, 1000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC126291

GeneID (NCBI):

160364

UNIPROT ID:

Q5QGZ9

Full Name:

C-type lectin domain family 12, member A

Calculated MW:

31 kDa

Purification Method:

Protein A purification

CloneNo.:

240791B7

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 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH 7.3.

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

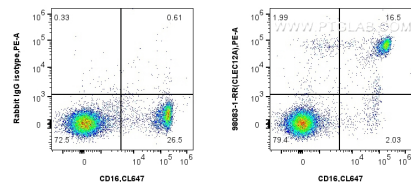
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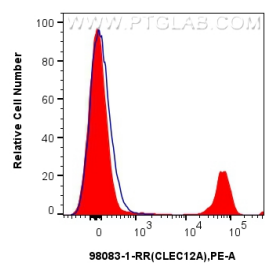
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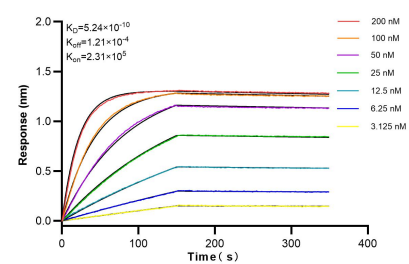
Selected Validation Data



1x10⁶ 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.



1x10⁶ 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.



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