

For Research Use Only

# CLEC12A Polyclonal antibody

Catalog Number: 28627-1-AP



## Basic Information

<b>Catalog Number:</b> 28627-1-AP	<b>GenBank Accession Number:</b> BC063424	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 160364	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:50-1:500
<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>Immunogen Catalog Number:</b> AG27864	<b>Calculated MW:</b> 31 kDa	
	<b>Observed MW:</b> 55-75 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human	<b>WB :</b> U-937 cells, human peripheral blood leukocyte <b>IF/ICC :</b> U-937 cells,

## 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

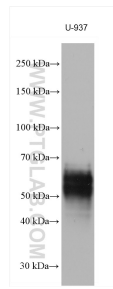
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

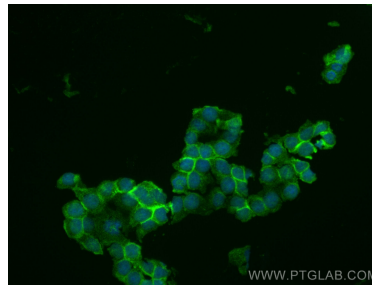
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## Selected Validation Data



U-937 cells were subjected to SDS PAGE followed by western blot with 28627-1-AP (CLEC12A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U-937 cells without permeabilization using CLEC12A antibody (28627-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).