

For Research Use Only

# SIRP Alpha/CD172a Polyclonal antibody

Catalog Number: 31485-1-AP



## Basic Information

<b>Catalog Number:</b> 31485-1-AP	<b>GenBank Accession Number:</b> NM_080792	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 140885	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P78324	
<b>Isotype:</b> IgG	<b>Full Name:</b> signal-regulatory protein alpha	
	<b>Calculated MW:</b> 55 kDa	
	<b>Observed MW:</b> 65-100 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : C6 cells, NIH/3T3 cells, U-937 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> THP-1 cells,

## Background Information

SIRP Alpha, also known as CD172a, SHPS-1, and BIT, belongs to the SIRP family. SIRP Alpha is a transmembrane glycoprotein expressed explicitly on myeloid cells and provides a "do not eat me" signal after engaging with integrin-associated protein CD47 on tumor cells (PMID: 36419386). SIRP Alpha shows heterogeneity in molecular weight (~65-120 kDa) in various tissues due to differential glycosylation (PMID: 18051954).

## Storage

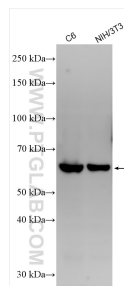
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

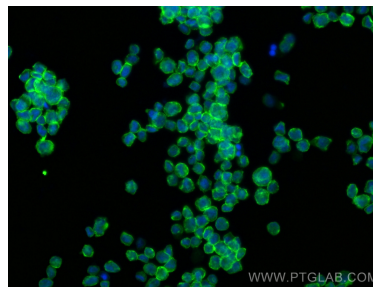
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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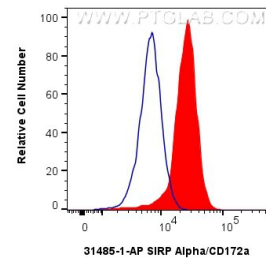
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31485-1-AP (SIRP Alpha/CD172a antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using SIRP Alpha/CD172a antibody (31485-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



$1 \times 10^6$  THP-1 cells were intracellularly stained with 0.25  $\mu$ g SIRP Alpha/CD172a Polyclonal antibody (31485-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25  $\mu$ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).