

For Research Use Only

# SIRP Alpha/CD172a Polyclonal antibody

Catalog Number: 14482-1-AP

4 Publications



## Basic Information

Catalog Number:

14482-1-AP

Size:

150ul, Concentration: 133 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5865

GenBank Accession Number:

BC033092

GeneID (NCBI):

140885

UNIPROT ID:

P78324

Full Name:

signal-regulatory protein alpha

Calculated MW:

55 kDa

Observed MW:

75-85 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : THP-1 cells, HL-60 cells, PC-12 cells, U-937 cells, mouse cerebellum tissue

IHC : human tonsillitis tissue,

IF/ICC : 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). This antibody detects a 75-85 kDa band.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qing Tu	36106559	Cell Prolif	WB
Qi Xie	30843336	J Obstet Gynaecol Res	WB
Kejia Zhao	29329362	Acta Biochim Biophys Sin (Shanghai)	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

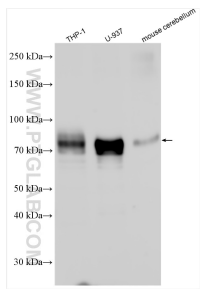
For technical support and original validation data for this product please contact:

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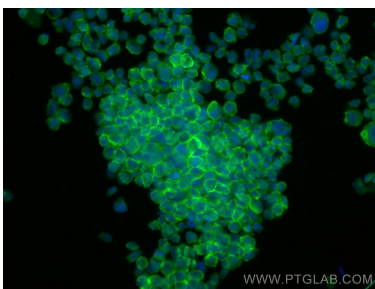
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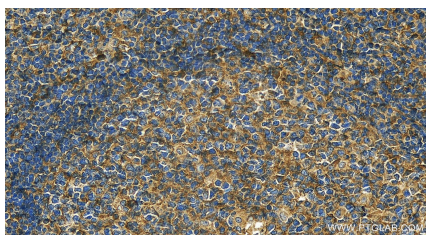
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14482-1-AP (SIRP Alpha antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using SIRP Alpha/CD172a antibody (14482-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14482-1-AP (SIRP Alpha/CD172a antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).