

For Research Use Only

# SIRP Alpha/CD172a Monoclonal antibody

Catalog Number: 67337-1-Ig



## Basic Information

<b>Catalog Number:</b> 67337-1-Ig	<b>GenBank Accession Number:</b> BC033092	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 140885	<b>CloneNo.:</b> 2F8H3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P78324	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:2000-1:8000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> signal-regulatory protein alpha	
<b>Immunogen Catalog Number:</b> AG6361	<b>Calculated MW:</b> 55 kDa	
	<b>Observed MW:</b> 75-85 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit	<b>WB :</b> pig brain tissue, U-251 cells, SW480 cells, HL-60 cells, THP-1 cells, rat brain tissue, mouse brain tissue, rabbit brain tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> rat cerebellum tissue, human liver tissue, rat brain tissue

## 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.

## Storage

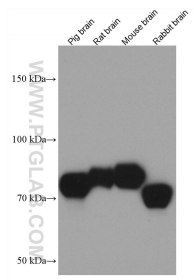
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

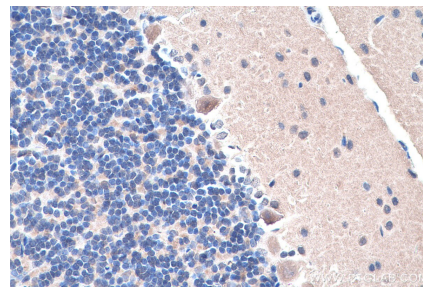
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67337-1-Ig (SIRP Alpha/CD172a antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 67337-1-Ig (SIRP Alpha antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).