

# PE Rat anti Mouse CD172a/SIRP $\alpha$ mAb

Catalog No.: A28609

## Basic Information

### Observed MW

### Calculated MW

56kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Mouse

### CloneNo number

ATC0045

### Conjugate

PE. Ex:565nm. Em:574nm.

## Recommended Dilutions

FC  $\leq 0.25 \mu\text{g}$  per million cells  
in 100  $\mu\text{l}$  volume

## Background

CD172a, also known as SIRP $\alpha$ , is a type I transmembrane protein featuring an extracellular region with one V-set Ig-like domain and two C-set Ig-like domains, and a cytoplasmic tail containing two immunoreceptor tyrosine-based inhibition motifs (ITIMs) and a proline-rich region. It is expressed by monocytes, macrophages, myeloid cells, and neuronal tissues. Phosphorylation of the SIRP $\alpha$  ITIMs induces the recruitment and activation of the tyrosine phosphatases PTPN6 (SHP-1) and PTPN11 (SHP-2), leading to the negative regulation of various biological processes. The known ligands for CD172a include CD47, surfactant protein A (SP-A), and surfactant protein D (SP-D).

## Immunogen Information

### Gene ID

19261

### Swiss Prot

P97797

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

Bit; P84; SIRP; SHP-1; CD172a; Ptpns1; SHPS-1; Idd13.2

## Contact

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## Product Information

### Source

Rat

### Isotype

IgG1,  $\kappa$

### Purification

Affinity purification

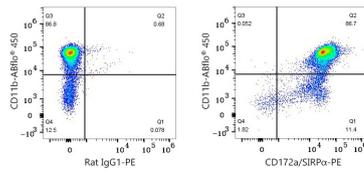
### Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data

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Flow cytometry:  $1 \times 10^6$  C57BL/6 mouse bone marrow cells were surface-stained with ABflo® 450 Rabbit anti-Mouse CD11b mAb (A26229, 5  $\mu$ l/Test) and PE Rat IgG1 isotype control (5  $\mu$ l/Test, left) or PE Rat anti Mouse CD172a/SIRP $\alpha$  mAb (A28609, 0.25  $\mu$ g, right).