

A Reliable Research Partner in Life Science and Medicine

# Elab Fluor<sup>®</sup> 700 Anti-Mouse CD172a/SIRPα Antibody[P84]

Catalog Number: E-AB-F1286UM1

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Reactivity Mouse Host Rat

**Isotype** Rat IgG1, κ

Clone No. P84

Isotype Control Elab Fluor® 700 Rat IgG1, κ Isotype Control[HRPN] [Product E-AB-F09823M1]

Conjugation Elab Fluor® 700

**Conjugation Information** Elab Fluor<sup>®</sup> 700 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter).

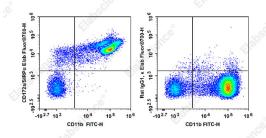
**Storage Buffer** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

#### Applications Recommended usage

**FCM** 

Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1  $\mu$ g/10<sup>6</sup> cells in 100  $\mu$ L volume].

# Data



Staining of C57BL/6 murine bone marrow cells with FITC

Anti-Mouse/Human CD11b Antibody[M1/70] and Elab Fluor<sup>®</sup> 700 Anti-Mouse CD172a/SIRPα Antibody[P84](left) or Elab

Fluor  $^{\text{\tiny B}}$  700 Rat IgG1,  $\kappa$  Isotype Control(right). Total viable cells were used for analysis.

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

Alternate Names BIT;CD172 antigen-like family member A;P84;PTPNS1;SHPS-1;SIRPα

 Uniprot ID
 Q64314

 Gene ID
 19261

# For Research Use Only

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# Elabscience®

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#### **Background**

CD172a, also known as SIRPa, is a type I transmembrane protein with one V-set Iglike and two C-set Ig-like domains in the extracellular portion, and two ITIM motifs and a proline-rich region in the cytoplasmic tail. CD172a is expressed by monocytes, macrophages, myeloid cells, and neuronal tissue. The phosphorylation of SIRPα ITIMs induces the recruitment and activation of the tyrosine phosphatases PTPN6 and PTPN11, resulting in the negative regulation of several biological processes. The ligands of CD172a are CD47, SP-A, and SP-D.

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