

Technical Data Sheet

Anti-Mouse CD172a

Catalog Number: 202801

Size: 100 ug

Target Name: CD172a, P84, SHPS-1, PTPNS1

Regulatory Status: RUO

Product Details

Clone: P84

Application: FC

Reactivity: Mouse

Format: Purified

Isotype: Rat IgG1

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Protein Concentration: 0.5 mg/mL

Storage&Handling: The antibody solution should be stored between 2°C and 8°C

Recommended Usage: For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

Release Date: Dec-25

Background Information

CD172a (SIRP?) is a type I transmembrane protein with one V-set Ig-like and two C-set Ig-like domains extracellularly, and two ITIM motifs plus a proline-rich region in the cytoplasmic tail. It is expressed on monocytes, macrophages, myeloid cells, and neuronal tissue. Phosphorylation of its ITIMs recruits and activates tyrosine phosphatases PTPN6 and PTPN11, mediating negative regulation of signaling pathways. Known ligands include CD47, SP-A, and SP-D, enabling SIRP? to modulate phagocytosis, immune cell activation, and other regulatory processes.