

Technical Data Sheet

iF647 Anti-Mouse CD172a

Catalog Number: 202802, 202803

Size: 25 tests, 100 tests

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

Regulatory Status: RUO

Product Details

Clone: P84

Application: FC

Reactivity: Mouse

Format: iF647

Isotype: Rat IgG1

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA

Protein Concentration: Supplied at a lot-specific concentration.

Storage&Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

Recommended Usage: For flow cytometric staining, it is recommended to use 5 uL 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.

Excitation Laser: Red Laser (633 nm)

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.