10<sup>3</sup>

102

Log Fluorescence Intensity

Human peripheral blood granulocytes stained with purified 148, followed by anti-mouse IgG biotin and Sav-PE

10<sup>4</sup>



## **Product Data Sheet**

Relative Cell Number

100

## Purified anti-human CD172a/b (SIRP $\alpha$ / $\beta$ )

Catalog # / Size: 337302 / 100 µg

**Clone:** 148

**Isotype:** Mouse IgG1,  $\kappa$ 

Reactivity: Human

**Preparation:** The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## **Applications:**

Applications: FC - Quality tested

IP, WB - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for

Application Notes: Additional reported applications include: mAb 148 is specific for CD172a/b, and also stains CD172g transfected cells,

but not T-lymphocytes

Application References: 1. Piccio L, et al. 2005. Blood 105:2421

2. Dietrich J, et al. 2000. J. Immunol. 164:9

Description: SIRPs (signal-regulatory proteins) are a family of transmembrane glycoproteins that belong to Ig superfamily. SIRPa

(CD172a, SIRPb),(SIRPb1,CD172b), and SIRPg (SIRPb2,CD172g) have been described. CD172a/b molecules are expressed on myeloid cells and neurons. CD172a serves as a substrate of activated receptor tyrosine kinases (RTKs). The interaction of CD172a intracellular domain with SHP-1 and SHP-2 displays negative signaling in the regulation of leukocyte adhesion and transmigration. CD47 (IAP) is an extracellular ligand for CD172a. CD172b is a disulfide-linked homodimer. CD172b has been shown to regulate neutrophil transepithelial migration through the interaction with DAP12 and Syk kinase (through TYROBP).

Clone

MG1-45

Antigen References: 1. Kharitonenkov A, et al. 1997. Nature 386:181.

2. Tomasello E, et al. 2000. Eur. J. Immunol. 30:2147.

Seiffert M, et al. 2001. Blood 97:2741.

4. Timms JF, et al. 1998. Mol. Cell Biol. 18:3838.

5. Barclay AN and MH. Brown. 2006. Nat. Rev.Immnuol. 6:457

**Related Products: Product** 

Purified Mouse IgG1, κ Isotype Ctrl

Cell Staining Buffer

RBC Lysis Buffer (10X)

Application

FC, ICC, ICFC, IF, IHC, IP, WB FC, ICC, ICFC

FC, ICFC



