

# Product Data Sheet

## Purified anti-human CD172b (SIRP $\beta$ )

**Catalog # / Size:** 323902 / 100  $\mu$ g

**Clone:** B4B6

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

**Immunogen:** NIH-3T3 cells transfected with SIRP $\beta$

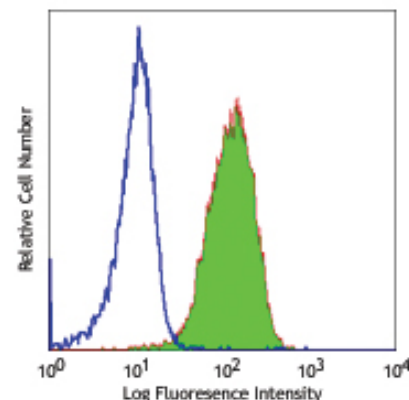
**Reactivity:** Human

**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.



Human peripheral blood granulocytes stained with purified B4B6, followed by biotinylated anti-mouse IgG and Sav-PE

## Applications:

**Applications:** FC - Quality tested

**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  $\leq 2.0$   $\mu$ g per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Seiffert M, *et al.* 2001. *Blood* 97:2741.

**Description:** The B4B6 antibody recognizes human CD172b also known as signal-regulatory protein beta, and SIRP-beta. CD172b is a member of the signal regulatory protein family and immunoglobulin superfamily. CD172b contains a single pass transmembrane region with immunoglobulin-like domains and unlike CD172a, this receptor lacks a cytoplasmic SHP-2 binding domain. CD172b is a disulfide-linked homodimer with a predicted molecular weight of approximately 43 kD. Two isoforms of CD172b are produced by alternative splicing. CD172b is expressed on myeloid cells including monocytes and dendritic cells where it functions in the negative regulation of tyrosine-kinase coupled signaling processes. CD172b has been shown to regulate neutrophil transepithelial migration. CD172b interacts with DAP12 and Syk kinase (through TYROBP). The B4B6 antibody has been shown to be useful for flow cytometry.

**Antigen References:** 1. Kharitonov A, *et al.* 1997. *Nature* 386:181.  
2. Tomasello E, *et al.* 2000. *Eur. J. Immunol.* 30:2147.

### Related Products:

**Product**  
 Purified Mouse IgG1,  $\kappa$  Isotype Ctrl  
 APC Goat anti-mouse IgG (minimal x-reactivity)  
 PE Goat anti-mouse IgG (minimal x-reactivity)  
 Cell Staining Buffer

**Clone**  
 MOPC-21  
 Poly4053  
 Poly4053

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



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.