

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human SIRPβ1/CD172b in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 308908
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human SIRPβ1/CD172b Gly26-Ala369 (Arg53His and Ala363Pro) Accession # O00241.4
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

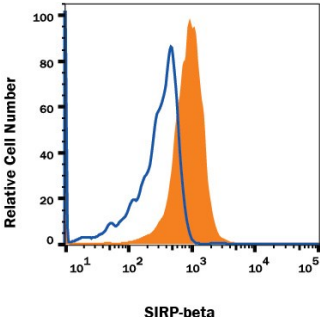
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	0.25 μg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 μg/mL	See Below
<b>CytoTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

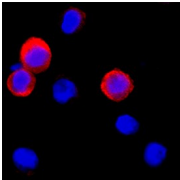
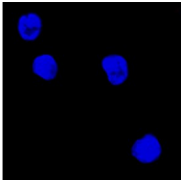
## DATA

**Flow Cytometry**



**Detection of SIRP-beta in Human Peripheral Blood Granulocytes by Flow Cytometry.** Human peripheral blood granulocytes were stained with Mouse Anti-Human SIRP-beta Monoclonal Antibody (Catalog # MAB20961, filled histogram) or Mouse IgG1 Isotype Control Antibody (Catalog # MAB003, open histogram) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). View our protocol for [Staining Membrane-associated Proteins](#).

**Immunocytochemistry**

**SIRP beta 1/CD172b in U937 human histiocytic lymphoma cell line.** SIRPβ1/CD172b was detected in immersion fixed U937 human histiocytic lymphoma cell line (left panel; positive staining) and Daudi human Burkitt's lymphoma cell line (right panel; negative staining) using Mouse Anti-Human SIRPβ1/CD172b Monoclonal Antibody (Catalog # MAB20961) at 8 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

SIRPβ1 is a type I transmembrane protein belonging to the SIRP family within the Ig superfamily. Members of this family are characterized by an extracellular region containing a V-set Ig domain containing a J-like sequence and two C1-set Ig domains. Unlike SIRPα that has cytoplasmic ITIM domains, SIRPβ1 possesses positively charged residues that allow association with ITAM motif containing adaptor molecules. SIRPβ1 is expressed on cells of monocyte, macrophage or dendritic lineages.