

## FITC anti-mouse CD172a (SIRP $\alpha$ ) Recombinant Antibody

<b>Catalog# / Size</b>	108607 / 25 $\mu$ g 108608 / 100 $\mu$ g
<b>Clone</b>	QA20A06
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	SHPS-1, BI, PTPNS1, CD172 antigen-like family member A
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD172a, also known as SIRP $\alpha$ , is a type I transmembrane protein with one V-set Ig-like and two C-set Ig-like domains in the extracellular portion, and two ITIM motifs and a proline-rich region in the cytoplasmic tail. CD172a is expressed by monocytes, macrophages, myeloid cells, and neuronal tissue. The phosphorylation of SIRP $\alpha$ ITIMs induces the recruitment and activation of the tyrosine phosphatases PTPN6 and PTPN11, resulting in the negative regulation of several biological processes. The ligands of CD172a are CD47, SP-A, and SP-D.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Recombinant
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is $\leq 0.5$ $\mu$ g per million cells in 100 $\mu$ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Clone QA20A06 can completely block the binding of clone P84 on target cells.
<b>RRID</b>	AB_3674969 (BioLegend Cat. No. 108607) AB_3674969 (BioLegend Cat. No. 108608)

### Antigen Details

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<b>Structure</b>	Type I transmembrane protein
<b>Distribution</b>	Monocytes, macrophages, myeloid cells, neuronal tissue
<b>Function</b>	Negative regulation of several biological processes
<b>Interaction</b>	PTPN6, PTPN11
<b>Ligand/Receptor</b>	CD47, SP-A, SP-D

**Cell Type** Dendritic cells, Macrophages, Monocytes, Neutrophils  
**Biology Area** Cell Adhesion, Cell Biology, Immunology, Signal Transduction  
**Molecular Family** Adhesion Molecules, CD Molecules, Protein Kinases/Phosphatase

**Antigen References**

1. Zhao XW, *et al.* 2011. *Proc Natl Acad Sci U S A.* 108:18342-7.
2. Verjan GN, *et al.* 2011. *J Immunol.* 187:2268-77.
3. Sato-Hashimoto M, *et al.* 2011. *J Immunol.* 187:291-7.
4. Raymond M, *et al.* 2010. *Eur J Immunol.* 40:3510-8.

**Gene ID** [19261](#)

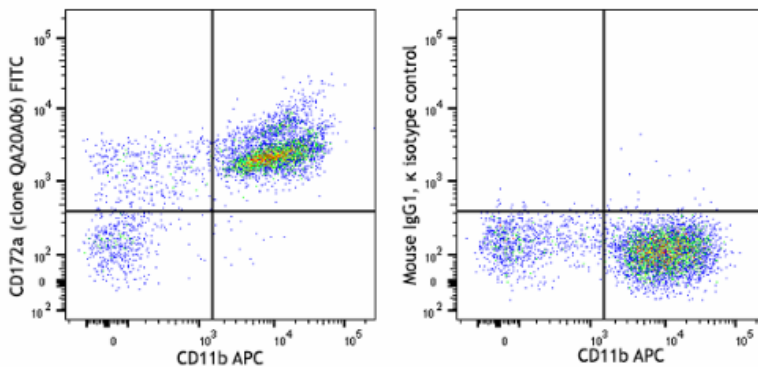
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD172a (SIRP $\alpha$ ) Recombinant Antibody, PE/Cyanine7 anti-mouse CD172a (SIRP $\alpha$ ) Recombinant Antibody, APC anti-mouse CD172a (SIRP $\alpha$ ) Recombinant Antibody , FITC anti-mouse CD172a (SIRP $\alpha$ ) Recombinant Antibody

## Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse CD11b (clone M1/70) APC and anti-mouse CD172a (SIRP $\alpha$ ) recombinant (clone QA20A06) FITC (left) or mouse IgG1, κ FITC isotype control (right). Data shown was gated on the myeloid cell population.

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