

**DATASHEET**

**CD172a Rat Monoclonal Antibody(P84)**

CAT. NO. AMA03842

**KEY FEATURES**

|               |  |               |                    |
|---------------|--|---------------|--------------------|
| Target        | CD172a   | Source / Host | Rat                |
| Reactivity    | Mouse  | Clonality     | Monoclonal         |
| Applications  | IF/ICC, FC   | Conjugation   | Unconjugated       |
| Form / Buffer | Rat IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide. |               | Storage<br>at-20°C |

**BACKGROUND**

The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

**PRODUCT OVERVIEW**

|                   |  |
|-------------------|--|
| Description       | Rat monoclonal antibody to CD172a  |
| Specificity       | Recognizes mouse CD172a  |
| Antibody Type     | Primary antibody   |
| Immunogen         | Mouse brain membrane protein   |
| Purification      | The antibody was purified by affinity chromatography.  |
| Form/Buffer       | Rat IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.   |
| Alternative Names | BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; Tyrosine-protein phosphatase non-receptor type substrate 1; SHP substrate 1; SHPS-1; Brain Ig-like molecule with tyrosine-based activation motifs; Bit; CD172 antigen-like family member A; Inhibitory receptor SHPS-1; Macrophage fusion receptor; MyD-1 antigen; Signal-regulatory protein alpha-1; Sirp-alpha-1; Signal-regulatory protein alpha-2; Sirp-alpha-2; Signal-regulatory protein alpha-3; Sirp-alpha-3; p84; CD172a |
| Gene Symbol       | SIRPA  |
| Entrez Gene       | 19261(Mouse)   |
| SwissProt         | P97797(Mouse)  |

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\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**| DATA**

**| STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**| NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.