Technical Data Sheet

APC Rat anti-Mouse CD172a

Product Information

**Material Number:** 560106
**Alternate Name:** SIRPα, SHPS-1, BIT
**Size:** 0.1 mg
**Concentration:** 0.2 mg/ml
**Clone:** P84
**Isotype:** Rat (SD) IgG1, κ
**Reactivity:** QC Tested: Mouse

**Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The P84 antibody reacts with CD172a, also known as Signal-Regulatory Protein α (SIRPα), Src Homology 2 domain-containing protein tyrosine Phosphatase (SHP) Substrate 1 (SHPS-1), or Brain Immunoglobulin-like molecule with Tyrosine-based activation motifs (BIT). CD172a is an adhesion molecule of the Ig superfamily which is expressed on neurons in the central nervous system and the retina, on macrophages, and on bone-marrow myeloid cells. Its ligand, CD47, or Integrin-Associated Protein (IAP), is expressed by a wide variety of cells. CD172a and CD47 are proposed to mediate bi-directional signaling to modify neural synaptic activity and regulate the phagocytic activities of macrophages.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

**Application Notes**

**Application**

| Flow cytometry | Routinely Tested |

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>553310</td>
<td>FITC Rat Anti-Mouse CD11b</td>
<td>0.5 mg</td>
<td>M1/70</td>
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<tr>
<td>554686</td>
<td>APC Rat IgG1, κ Isotype Control</td>
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<td>R3-34</td>
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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

**References**


BD Biosciences

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Comu S, Weng W, Olinsky S. The murine P84 neural adhesion molecule is SHPS-1, a member of the phosphatase-binding protein family. J Neurosci. 1997; 17(22):8702-8710. (Biology)


