APC Mouse Anti-Human CD32

Product Information

Material Number: 559769
Alternate Name: CD32a, FcγRIIa, FCGR2A; CD32b, FcγRIIb, FCGR2B; CD32c, FcγRIIc, FCGR2C
Size: 100 Tests
Vol. per Test: 20 µl
Clone: FLI8.26 (also known as 8.26)
Immunogen: K562 or FcγRII+ L cell lines
Isotype: Mouse (BALB/c) IgG2b, κ
Reactivity: QC Testing: Human
Workshop: V MA128
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The FLI8.26 monoclonal antibody specifically recognizes CD32 which is also known as Fcγ receptor type II (FcγRII). CD32 is a type I transmembrane glycoprotein that serves as a low affinity receptor for aggregated IgG. The FLI8.26 antibody recognizes a, b, and c forms of CD32 that are encoded by separate genes: CD32a/FcγRIIa (FCGR2A), CD32b/FcγRIIb (FCGR2B), and CD32c/FcγRIIc (FCGR2C). These forms are differentially expressed on monocytes, granulocytes, T cells, B cells, NK cells, or platelets. These receptors play various roles in mediating and regulating inflammation and immunity including phagocytosis, cytotoxicity, degranulation, or platelet activation.

Profile of peripheral blood lymphocytes analyzed by flow cytometry
Profile of peripheral blood monocytes analyzed by flow cytometry
Profile of peripheral blood granulocytes analyzed by flow cytometry

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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>
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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<td>APC Mouse IgG2b κ Isotype Control</td>
<td>100 Tests</td>
<td>27-35</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>Lysing Buffer</td>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
3. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
7. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
8. An isotype control should be used at the same concentration as the antibody of interest.

References


Stuart SG, Sinister NE, Clarkson SB, Kacinski BM, Shapiro M, Meliman I. Human IgG Fc receptor (hFcr): CD32) exists as multiple isoforms in macrophages, lymphocytes and IgG-transporting placental epithelium. EMBO J. 1989; 8(12):3657-3666. (Biology)
