Technical Data Sheet

PE Mouse Anti-Dog CD34

Product Information

Material Number: 559369
Size: 0.1 mg
Concentration: 0.2 mg/ml
Clone: 1H6
Immunogen: Dog CD34-mouse IgG2a fusion protein and dog myelomonocytic leukemia ML3
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Dog
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 1H6 antibody reacts with CD34, an ~110 kDa glycoprotein on the surface of bone marrow-derived progenitors of hematopoietic and endothelial cells. In the bone marrow, 1-3% of cells are stained with 1H6 mAb; whereas peripheral blood leukocytes are not stained. Immunomagnetic depletion of lineage-committed leukocytes from bone marrow results in about three-fold enrichment of CD34+ cells. CD34+ hematopoietic progenitors may be mobilized to the peripheral blood by treatment with recombinant canine granulocyte colony-stimulating factor and stem-cell factor. Furthermore, CD34 is expressed on some canine leukemias. In the mouse, CD34 is also expressed on high endothelial venules (HEV) of lymph nodes and, in this form, functions as a ligand for L-selectin. CD34 expression on HEV of dog lymph nodes has been demonstrated with polyclonal anti-CD34 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

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>
</tr>
</thead>
<tbody>
<tr>
<td>550617</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-31C</td>
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</tbody>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
4. 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.

References


BD Biosciences

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