Technical Data Sheet Biotin Mouse Anti-Canine CD34

Product Information

550427
gp 105-120
0.1 mg
0.5 mg/ml
2E9
CD34-mouse IgG2a fusion protein and canine myelomonocytic leukemia ML3
Mouse (BALB/c) IgG1, κ
Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium
azide.

Description

The 2E9 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 2E9 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 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 biotin under optimum conditions, and unreacted biotin was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application				
Flow cytometry Routinely Tested				
Suggested Compa	nion Products			
Catalog Number	Name		Size	Clone
550615	Biotin Mouse IgG1 κ Isotype Control		0.25 mg	MOPC-31C
554060	FITC Streptavidin		0.5 mg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. 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

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