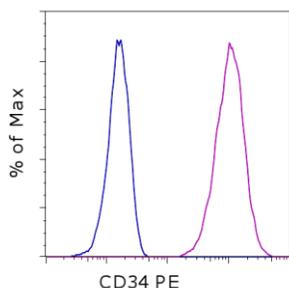


## Anti-Canine CD34 PE

**Catalog Number:** 12-0340

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of a canine CD34-expressing cell line with Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (blue histogram) or Anti-Canine CD34 PE (purple histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Canine CD34 PE  
**REF** **Catalog Number:** 12-0340  
**Clone:** 1H6  
**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test  
**Host/Isotype:** Mouse IgG1



**LOT**



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.  
**Batch Code:** Refer to vial  
**Use By:** Refer to vial

### Description

The 1H6 monoclonal antibody reacts with canine CD34, also known as mucosialin. CD34 belongs to a protein family that also includes endoglycan and podocalyxin. These single-pass transmembrane proteins possess heavily glycosylated extracellular and N-terminal mucin domains. Similar to humans, canine CD34 can be detected on hematopoietic progenitor cells in the bone marrow, peripheral blood and hair follicle, as well as on some populations of mesenchymal stem cells, tumor cell lines, and on vascular endothelia in the adult. CD34 can be used as a marker to isolate cells capable of hematopoietic cell engraftment.

The 1H6 antibody has been reported to work for enriching CD34+ cells.

### Applications Reported

This 1H6 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 1H6 antibody has been pre-titrated and tested by flow cytometric analysis of a canine CD34-expressing cell line. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

Pascucci L, Mercati F, Gargiulo AM, Pedini V, Sorbolini S, Ceccarelli P. CD34 glycoprotein identifies putative stem cells located in the isthmus region of canine hair follicles. *Vet Dermatol*. 2006 Aug;17(4):244-51.

Suter SE, Gouthro TA, McSweeney PA, Nash RA, Haskins ME, Felsburg PJ, Henthorn PS. Isolation and characterization of pediatric canine bone marrow CD34+ cells. *Vet Immunol Immunopathol*. 2004 Sep;101(1-2):31-47. (1H6, CD34+ enrichment)

McSweeney PA, Rouleau KA, Wallace PM, Bruno B, Andrews RG, Krizanac-Bengez L, Sandmaier BM, Storb R, Wayner E, Nash RA. Characterization of monoclonal antibodies that recognize canine CD34. *Blood*. 1998 Mar

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[info@ebioscience.com](mailto:info@ebioscience.com)

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15;91(6):1977-86. (1H6, FC and WB)

### Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

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