

## Monoclonal Antibody to CD34 - PE

<b>Alternate names:</b>	Hematopoietic progenitor cell antigen CD34, Hematopoietic progenitor cell marker
<b>Catalog No.:</b>	SM2257R
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD34 is a cell surface antigen of approximately 110kDa expressed by endothelial cells and haematopoietic stem cells.
<b>Uniprot ID:</b>	<a href="#">Q28270</a>
<b>NCBI:</b>	<a href="#">NP_001003341.1</a>
<b>GeneID:</b>	<a href="#">415130</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	1H6
<b>Immunogen:</b>	Canine CD34 fusion protein. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1/FOX-NY myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1 ml distilled water
<b>Applications:</b>	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific for CD34. Clone 1H6 is reported for use in CD34+ enrichment studies (4,5). <b>Species:</b> Dog. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General References:</b>	1. McSweeney, P. et al. (1998) Characterization of monoclonal antibodies that recognize canine CD34. Blood. 91: 1977-1986. 2. Goerner, M. et al. (1999) The use of granulocyte colony-stimulating factor during retroviral transduction on fibronectin fragment CH-296 enhances gene transfer into hematopoietic repopulating cells in dogs. Blood. 94: 2287-2292. 3. Bhattacharya, V. et al. (2000) Enhanced endothelialization and microvessel formation in

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polyester grafts seeded with CD34+ bone marrow cells. Blood. 95: 581-585.

4. Goerner, M. et al. (2001) Sustained multilineage gene persistence and expression in dogs transplanted with CD34+ marrow cells transduced by RD114-pseudotype oncoretrovirus vectors. Blood. 98: 2065-2070.

5. Horn, P. et al. (2004) Efficient lentiviral gene transfer to canine repopulating cells using an overnight transduction protocol. Blood. 103: 3710-3716.

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