

CD34 Monoclonal Antibody (1H6), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog
Published Species	Dog
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1H6
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10668490

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	7 Publications

Product Specific Information

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.

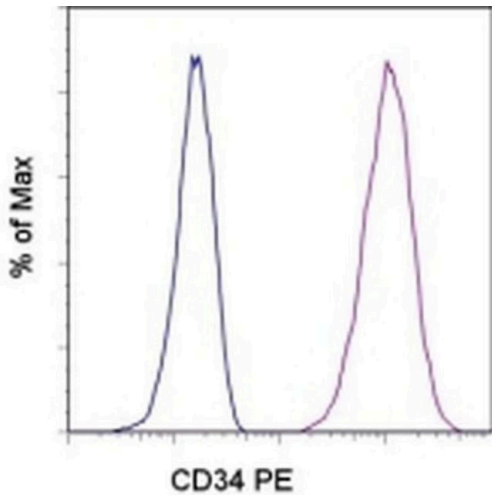
Applications Reported: This 1H6 antibody has been reported for use in flow cytometric analysis.

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 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD34 Monoclonal Antibody (1H6), PE, eBioscience™



CD34 Antibody (12-0340-42) in Flow

Staining of a canine CD34-expressing cell line with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Canine CD34 PE (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.cn](http://thermofisher.cn)

8 References

Immunohistochemistry (PFA fixed) (1)

Journal of controlled release : official journal of the Controlled Release Society

Corrective GUSB transfer to the canine mucopolysaccharidosis VII cornea using a helper-dependent canine adenovirus vector.

"12-0340 was used in Immunofluorescence to test the efficacy of canine adenovirus type 2 vectors to transduce keratocyte in vivo and ex vivo."

Authors: Serratrice N,Cubizolle A,Ibanes S,Mestre-Francés N,Bayo-Puxan N,Creyssels S,Gennetier A,Bernex F,Verdier JM,Haskins ME,Couderc G,Malecaze F,Kalatzis V,Kremer EJ

Year
2014

Species
Dog

Dilution
1:100

Flow Cytometry (7)

Animal reproduction

Secretion pattern of canine amniotic stem cells derived extracellular vesicles.

"12-0340-42 was used in flow cytometry to demonstrate that P0 of MSC is enriched of EVs when compared to later passages, suggesting that this passage would be the best to be applied in pre-clinical tests."

Authors: Karam RG,Motta LCB,de Almeida MF,Bridi A,da Silveira JC,Ambrósio CE

Year
2022

Species
Dog

Dilution
1:100

Stem cells and cloning : advances and applications

Characterization and Immunomodulation of Canine Amniotic Membrane Stem Cells.

"Published figure using CD34 monoclonal antibody (Product # 12-0340-42) in Flow Cytometry"

Authors: de Oliveira Pinheiro A,Lara VM,Souza AF,Casals JB,Bressan FF,Fantinato Neto P,Oliveira VC,Martins DS,Ambrosio CE

Year
2022

Species
Dog

Dilution
1:100

[View more Flow references on thermofisher.cn](#)

More applications with references on thermofisher.cn

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