SONY

Product Data Sheet

APC/Cyanine7 anti-mouse CD34

Catalog # / Size: 1243110 / 100 µg
1243105 / 25 µg

Clone: HM34

Isotype: Hamster IgG

Immunogen: Mouse CD34 transfected BHK cells

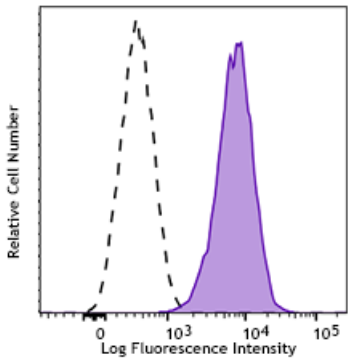
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



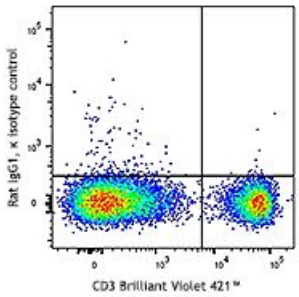
Mouse fibroblast NIH/3T3 cells were stained with CD34 (clone HM34) APC/Cyanine7 (filled histogram) or Armenian hamster IgG APC/Cyanine7 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The HM34 antibody does not stain bone marrow cells like some other mouse CD34 antibodies, probably because the antibody recognizes a different epitope from other mAbs.



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

Application References:

1. Luscher B, *et al.* 1985. *J. Immunol.* 135 :3951
2. MacDonald HR, *et al.* 1985. *J. Immunol.* 135 :3944

Description: CD34 is a highly glycosylated hematopoietic progenitor antigen.Two isoforms of CD34 have been reported. CD34 is expressed on hematopoietic progenitors, as well as endothelial cells, brain and testis. CD34 is thought to function as an adhesion molecule for attachment of stem cells to extracellular matrix or stromal cells.

Antigen References:

1. Garlanda C, *et al.* 1997. *Eur J Cell Biol* 73:368
2. Brown J, *et al.* 1991. *Int Immunol* 3:175

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