

CD34 antibody (MB34), mAb, Mouse

Cat. No.	Name	Size
V04101	CD34 antibody (MB34), mAb, Mouse	*

Note: * Available in multiple package sizes: 100 µg, 1 mg (or more). GenScript can customize each product per customer's request including product size, buffer components, etc. GenScript can also provide conjugated antibody per customer's request with Biotin, FITC, PE and APC.

Specificity	Human CD34
Alternative Name	My10, gp105-120, Mucosialin
Isotype	IgG1, κ
Clone	MB34
Application	Flow cytometry
Recommended Usage	It is recommended that the reagent be titrated for optimal performance for each application. Each lot of the antibodies undergoes quality control test by flow cytometric analysis.
Preparation	Protein A/G affinity column
Concentration	Lot-specific. Please check your CoA to find the concentration.
Formulation	1) PBS, pH 7.4, containing 0.03% Proclin 300 2) 50 mM Na-citrate, 150 mM NaCl, pH7.0, containing 0.03% Proclin 300 * *: For new batch since 09/01/2018, please refer to COA.
Storage	The antibody should be stored for up to three months at 2-8°C or for up to three years at -20°C or below. Avoid repeated freezing and thawing cycles.
Background	CD34 is a type I transmembrane glycoprotein. It is expressed on hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, and embryonic fibroblasts. CD34 mediates cell adhesion

and lymphocytes homing through binding to L-selectin and E-selectin ligands. It is also required for T cells to enter lymph nodes. CD34 is a useful marker for identifying human hematopoietic stem/progenitor cells.

Fluorescent Dyes

	Excitation Source	Excitation Max	Emission Max
FITC	Blue 488 nm	494 nm	520 nm
PE	Blue 488 nm, Green 532 nm, Yellow/Green 561 nm	496 nm	578 nm
APC	Red 633 nm	650 nm	660 nm

Data Demonstration

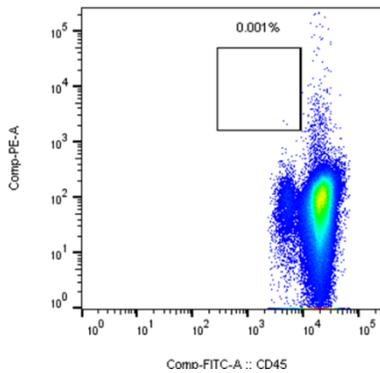


Figure 1

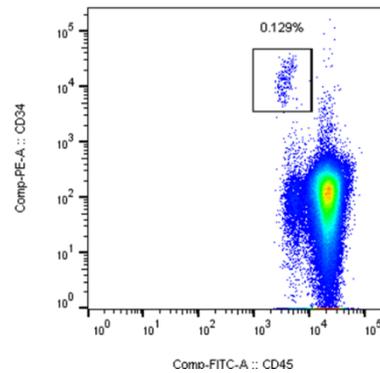


Figure 2

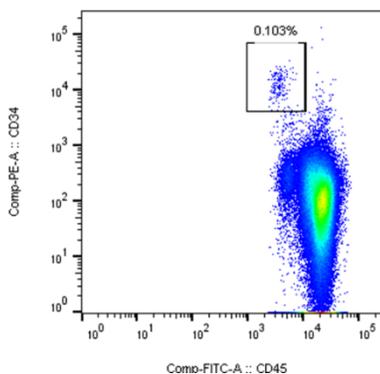


Figure 3

Human PBMC were stained with a negative control antibody (Figure 1), or with CD34 antibody (MB34), mAb, Mouse (Genscript, V04101) (Figure 2), or with a positive control antibody (Figure 3). CD45-FITC were stained together for gating accurately in flow cytometric analysis.

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