

Technical Data Sheet

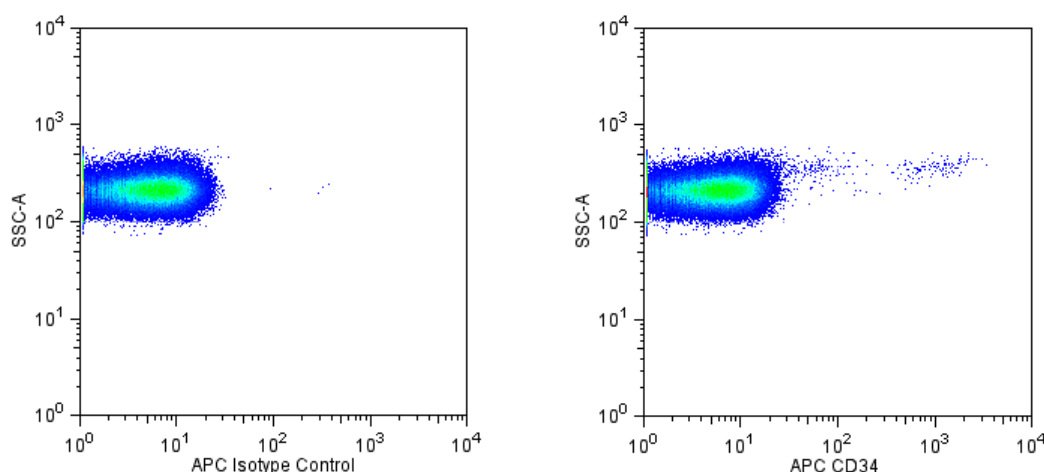
APC Mouse Anti-Human CD34

Product Information

Material Number:	561209
Alternate Name:	gp 105-120
Size:	50 tests
Vol. per Test:	5 µl
Clone:	563
Isotype:	Mouse IgG1, κ
Reactivity:	Human
	QC Testing: Rhesus or Cynomolgus Macaques or Baboons
Workshop:	V MA030
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 563 monoclonal antibody specifically binds to CD34. CD34 is a single-chain 105-120 kDa heavily O-glycosylated transmembrane glycoprotein expressed on hematopoietic progenitor cells, vascular endothelium and some tissue fibroblasts. The intracellular chain of the CD34 antigen is a target for phosphorylation by activated protein kinase C suggesting that CD34 may play a role in signal transduction. CD34 may play a role in adhesion of specific antigens to endothelium. Clone 563 belongs to the class III epitope; it is resistant to neuraminidase, chymopapain and glycoprotease. This antibody is able to block the binding of other CD34 mAbs like 581.



Flow cytometric analysis of CD34 expression on CD14-negative Rhesus macaque peripheral blood mononuclear cells. Rhesus macaque peripheral blood mononuclear cells were stained with Alexa Fluor® 488 Mouse Anti-Human CD14 antibody (Cat. No. 557700) in conjunction with either APC Mouse IgG1, κ Isotype Control (Cat. No. 554681; Left Panel) or APC Mouse Anti-Human CD34 antibody (Cat. No. 561209, Right Panel). Two-parameter flow cytometric dot plots showing the correlated expression of CD34 (or Ig Isotype control staining) versus side scattered light were derived from gated events based on the forward and side light-scattering characteristics of viable CD14-negative cells. Flow cytometry was performed using a BD™ LSR II Flow Cytometry System.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

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Application Notes

Application

Flow cytometry

Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
554681	APC Mouse IgG1 κ Isotype Control	0.1 mg	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)
557700	Alexa Fluor® 488 Mouse Anti-Human CD14	100 tests	M5E2

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Please refer to www.bdbiosciences.com/pharmlingen/protocols for technical protocols.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

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