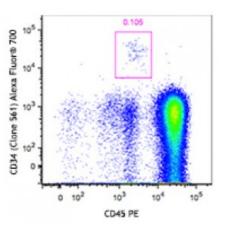
Product Data Sheet

Alexa Fluor[®] 700 anti-human CD34

Catalog # / Size:	2318110 / 100 tests 2318105 / 25 tests
Clone:	561
Isotype:	Mouse IgG2a, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood mononuclear cells were stained with CD45 PE and CD34 (clone 561) Alexa Fluor® 700 (top) or mouse IgG2a, к Alexa Fluor® 700 isotype control (bottom). Data shown was gated on CD14⁻ cell population.

104

105

10⁵

Applications:

Applications:	Flow Cytometry	CO		
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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	Mouse IgG2a, k isotype con	0 10 ²	10 ³ CD45 PE
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.			
Application Notes:	The 561 antibody recognizes a class III group epitope, which is resistant to sialidase/glycolyprotease and chymopapain treatment.			
Application References:	1. Croockewit AJ, <i>et al.</i> 1998. <i>Scand. J. Imn</i> 2. Rosenzweig M, <i>et al.</i> 2001. <i>J. Med. Prima</i>			

Description: CD34, also known as gp105-120, is a type I monomeric sialomucin-like glycophosphoprotein with an approximate molecular weight of 105-120 kD. It is

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selectively expressed on the majority of hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some nervous tissue. CD34 is a commonly used marker for identifying human hematopoietic stem/progenitor cells. Based on different sensitivities, four groups of epitopes of CD34 have been described. CD34 mediates cell adhesion and lymphocytes homing through binding to L-selectin and E-selectin ligands.