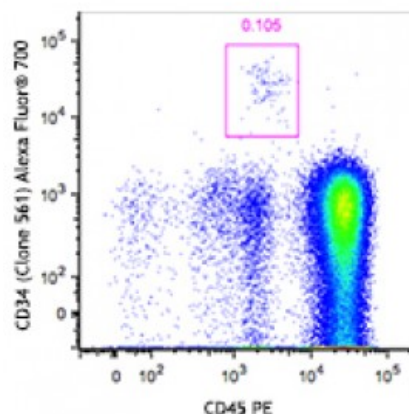


**Alexa Fluor® 700 anti-human CD34**

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



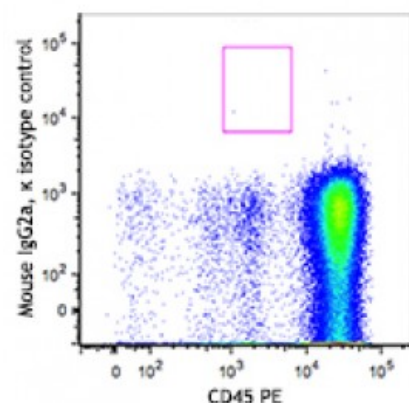
Human peripheral blood mononuclear cells were stained with CD45 PE and CD34 (clone 561) Alexa Fluor® 700 (top) or mouse IgG2a, κ Alexa Fluor® 700 isotype control (bottom). Data shown was gated on CD14<sup>+</sup> cell population.

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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.

\* 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.

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U.S. Patent(s), pending patent applications and foreign equivalents.

**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, *et al.* 1998. *Scand. J. Immunol.* 47:82.  
2. Rosenzweig M, *et al.* 2001. *J. Med. Primatol.* 30:36.

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