

## CD34 Antibody PE Conjugate [clone ICO-115] (V2065PE)

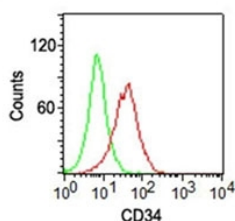
Catalog No.	Formulation	Size
V2065PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests



Citations (5)

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human and Rat. Other species not known.
Format	PE Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ICO-115
Purity	Protein G affinity chromatography
Gene ID	947 (Human)
Localization	Cell surface
Applications	Flow Cytometry : 5ul per test per one million cells in 0.1ml (or 5ul per 100ul of whole blood) Immunofluorescence : 1:50-1:100
Limitations	This antibody is available for research use only.



Surface flow cytometric analysis of CD34 on KG-1 cells using CD34 antibody (ICO-115, red) and isotype control antibody (green). The PPI-negative cell population was gated for analysis.

### Description

CD34 antibody PE conjugate clone ICO-115 is a monoclonal antibody specific for CD34, a transmembrane glycoprotein expressed on hematopoietic stem and progenitor cells, vascular endothelial cells, and certain mesenchymal cells. CD34 plays important roles in cell adhesion, migration, and hematopoiesis. Its expression serves as a widely accepted marker for stem and progenitor cell identification, as well as for vascular biology. NSJ Bioreagents provides CD34 antibody PE conjugate clone ICO-115 for reliable detection of this key stem cell and endothelial marker in research applications.

The antibody produces strong membranous staining of hematopoietic precursors and vascular endothelium. In stem cell biology, it is widely applied to isolate and characterize hematopoietic progenitors. Researchers use this conjugated antibody to study stem cell maintenance, lineage commitment, and transplantation outcomes.

In vascular biology, CD34 antibody PE conjugate clone ICO-115 is used to identify endothelial cells and investigate angiogenesis. Its ability to label vascular endothelium makes it valuable for studies of vessel formation, wound healing, and cardiovascular disease.

In oncology, the antibody has been employed to evaluate tumor angiogenesis and to study the role of CD34 positive progenitors in tumor microenvironments. Detection of CD34 supports investigations into how tumors recruit stem and endothelial cells to promote growth and metastasis.

The PE conjugation produces strong red-orange fluorescence, enabling direct detection in flow cytometry and fluorescence imaging. This simplifies workflows by eliminating secondary antibody steps and improves assay sensitivity. Alternate names include hematopoietic progenitor marker antibody PE, vascular endothelium marker antibody PE, and stem cell marker CD34 antibody PE conjugate.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.

## Immunogen

Blast cells from a chronic myeloid leukemia patient were used as the immunogen for this CD34 antibody.

## Storage

Store the CD34 antibody at 2-8°C. Conjugate is light sensitive, store in the dark.

## References (2)