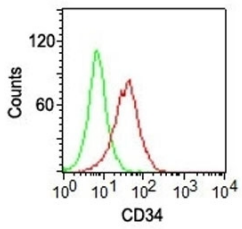
CD34 Antibody [clone ICO-115] (V2065CF647)

Catalog No.	Formulation	Size
V2065CF647-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	CF647 Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ICO-115
Purity	Protein G affinity chromatography
UniProt	P28906
Localization	Cell surface
Applications	Flow Cytometry : 5ul per test per one 10^6 cells in 0.1ml or 5ul per 100ul of whole blood Immunofluorescence : 1:50-1:100
Limitations	This CD34 antibody is available for research use only.



Surface flow cytometric analysis of CD34 on human KG-1 cells using CD34 antibody (clone ICO-115, red) and isotype control antibody (green).

Description

CD34 antibody CF647 conjugate clone ICO-115 is a monoclonal antibody specific for CD34, a marker of hematopoietic progenitors and vascular endothelial cells. CD34 regulates adhesion and migration and is essential for stem cell and vascular biology. With direct CF647 conjugation, this antibody produces far-red fluorescence, enabling detection of CD34 in multicolor fluorescence-based studies. NSJ Bioreagents supplies CD34 antibody CF647 conjugate clone ICO-115 for stem cell, oncology, and vascular biology research.

The antibody labels CD34 positive progenitor cells in bone marrow and endothelial cells in blood vessels. The bright far-red signal is compatible with standard filter sets, making it highly suitable for flow cytometry and fluorescence microscopy. Direct conjugation to CF647 simplifies experimental design and improves assay sensitivity by removing secondary detection steps.

In stem cell research, CD34 antibody CF647 conjugate clone ICO-115 supports studies of hematopoietic progenitors and transplantation outcomes. Researchers use this antibody to characterize progenitor populations and evaluate engraftment efficiency.

In vascular research, the antibody is applied to angiogenesis and cardiovascular biology. Its detection of endothelial cells provides insight into vessel formation, remodeling, and pathology.

In oncology, CD34 antibody CF647 conjugate clone ICO-115 is widely used to assess tumor vascularization, where vessel density and structure influence cancer progression and therapeutic response. This antibody also supports studies of CD34 positive cells recruited into the tumor microenvironment.

Validated for fluorescence-based studies, the antibody consistently provides strong far-red signals with minimal background. Alternate names include hematopoietic progenitor marker antibody CF647, vascular endothelial marker antibody CF647, and stem cell marker CD34 antibody CF647 conjugate.

Application Notes

Optimal dilution of the CD34 antibody should be determined by the researcher.

Immunogen

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

Storage

Store the CD34 antibody at 2-8oC, protected from light.