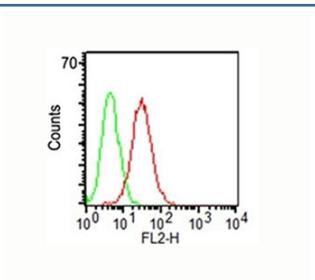
CD34 Antibody [clone ICO-115] (V2065)

Catalog No.	Formulation	Size
V2065-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2065-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2065SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

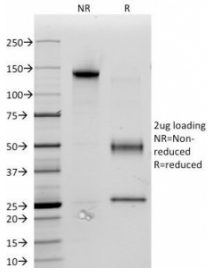
Citations (5)

Bulk quote request

Species Reactivity	Human, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ICO-115
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	947
Localization	Cell surface
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 0.5-1ug/ml
Limitations	This **CD34 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.



SDS-PAGE Analysis of Purified, BSA-Free CD34 Antibody (clone ICO-115). Confirmation of Integrity and Purity of the Antibody.

Description

CD34 antibody clone ICO-115 is a monoclonal antibody that detects CD34, a transmembrane glycoprotein present on hematopoietic stem and progenitor cells as well as vascular endothelial cells. CD34 plays a central role in hematopoiesis, angiogenesis, and progenitor cell biology. Because of its broad applications, it is one of the most commonly used markers for identifying stem cells and endothelial cells in research and diagnostic pathology. NSJ Bioreagents provides CD34 antibody as a reliable reagent for stem cell and vascular studies.

The antibody shows strong membranous staining on hematopoietic precursors in bone marrow and endothelial cells in vascular tissues. In stem cell research, clone ICO-115 has been widely applied to isolate and characterize hematopoietic progenitors and to monitor stem cell engraftment in transplantation studies.

In vascular biology, CD34 antibody labels endothelial cells and reveals vascular architecture. Its application supports research into angiogenesis, wound healing, and cardiovascular disease. By providing reliable detection of vascular endothelium, this antibody helps clarify processes of vessel formation and remodeling.

In oncology, the antibody is frequently used to evaluate tumor angiogenesis, where blood vessel density and structure provide prognostic information. Clone ICO-115 is also applied in identifying vascular tumors and distinguishing them from other malignancies.

Validated in tissue-based and cell-based systems, the antibody produces strong and consistent results. Alternate names include hematopoietic progenitor marker antibody, vascular endothelial cell antibody, and stem cell marker CD34 antibody.

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 titered 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 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)

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