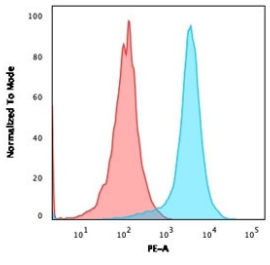
PECAM-1 Antibody PE Conjugate [clone JC/70A] (V2779PE)

Catalog No.	Formulation	Size
V2779PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Citations (10)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	PE Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	JC/70A
Purity	Protein G affinity chromatography
UniProt	P16284
Localization	Cell surface and cytoplasmic
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 for 30 min at RT
Limitations	This PECAM-1 antibody is available for research use only.



Flow cytometry testing of human Jurkat cells with PE-conjugated CD31 antibody (blue, clone JC/70A) and isotype control (red).

Description

PECAM-1 antibody PE conjugate clone JC/70A is a monoclonal antibody specific for platelet endothelial cell adhesion molecule 1, also known as CD31. PECAM-1 is expressed on endothelial cells, platelets, monocytes, and certain T cell subsets, where it regulates leukocyte transmigration, angiogenesis, and vascular integrity. By providing strong red-orange fluorescence through phycoerythrin conjugation, this antibody supports direct detection of CD31 in fluorescence-based studies. NSJ Bioreagents supplies this reagent for vascular biology, immunology, and oncology research.

The antibody produces vivid membranous staining of vascular endothelium, allowing clear visualization of blood vessel architecture. In vascular biology, CD31 detection is indispensable for studying angiogenesis, wound healing, and vascular remodeling. Its role in endothelial adhesion and barrier function has made PECAM-1 a standard marker of vascular health and pathology.

In immunology, this antibody highlights CD31 expression on leukocytes, supporting research into immune cell trafficking, transmigration, and inflammatory signaling. Because CD31 participates in homophilic interactions that regulate leukocyte-endothelial adhesion, detecting it provides insights into immune surveillance and inflammation.

In oncology, PECAM-1 antibody PE conjugate clone JC/70A is frequently used to study tumor angiogenesis. The density and distribution of CD31 positive vessels within tumors correlate with prognosis and therapeutic response. Direct fluorescent detection of PECAM-1 supports efficient quantification of vascular networks in cancer models.

The antibody has also been applied in cardiovascular disease research, where altered CD31 expression reflects endothelial dysfunction and atherosclerosis. It provides investigators with a sensitive tool for evaluating vascular pathology in experimental and translational studies.

Validated in fluorescence-based systems, the antibody consistently produces bright red-orange signals with minimal background interference. Alternate names include CD31 antibody PE conjugate, platelet endothelial cell adhesion molecule antibody PE, and vascular endothelial marker antibody PE.

Application Notes

Optimal dilution of the PECAM-1 antibody should be determined by the researcher.

Immunogen

Membrane preparation of a spleen from a patient with hairy cell leukemia was used as the immunogen for the PECAM-1 antibody.

Storage

Store the PECAM-1 antibody at 2-8oC. Conjugate is light sensitive, store in the dark.