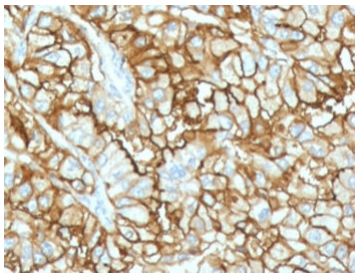
CD34 Antibody for FACS / Flow Cytometry Immunophenotyping Antibody [clone CDLA34-2R] (V7456)

Catalog No.	Formulation	Size
V7456-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7456-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7456SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7456IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

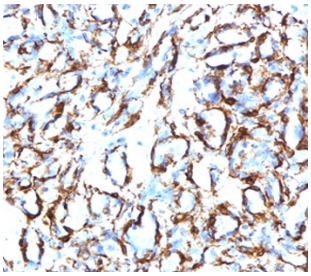
Recombinant RABBIT MONOCLONAL

Bulk quote request

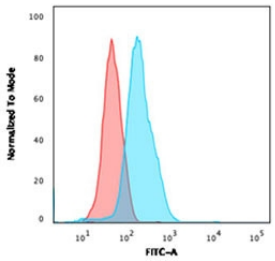
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDLA34-2R
Purity	Protein A affinity chromatography
UniProt	P28906
Localization	Cell surface, cytoplasmic
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Prediluted IHC only format: incubate for 30 min at RT (1)
Limitations	This CD34 Antibody for FACS / Flow Cytometry Immunophenotyping Antibody is available for research use only.



CD34 Antibody for human RCC IHC. Immunohistochemistry analysis of CD34 expression in FFPE human renal cell carcinoma using clone CDLA34-2R, demonstrates strong membranous HRP-DAB brown staining in tumor-associated vascular endothelial cells outlining dense microvascular networks, while surrounding tumor cells remain largely negative. The staining pattern highlights prominent tumor angiogenesis and vascular architecture within renal cell carcinoma. Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human angiosarcoma with recombinant CD34 antibody (clone CDLA34-2R). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



CD34 Antibody for FACS. Flow cytometry analysis of CD34 expression in human Jurkat cells using a Flow Cytometry Immunophenotyping Antibody, clone CDLA34-2R, shows a clear right-shifted population (blue) compared to isotype control (red), demonstrating specific surface staining and strong signal resolution. The distinct population separation supports accurate gating of CD34-positive cells and highlights the antibodyâ€™s utility in multiparameter immunophenotyping panels for progenitor cell analysis.

Description

Cluster of Differentiation 34 (CD34) is a transmembrane glycoprotein encoded by the CD34 gene and expressed on hematopoietic stem and progenitor cells as well as early endothelial lineage populations. It functions in cell adhesion and migration and serves as a key marker of immature hematopoietic cells. CD34 Antibody for FACS is widely used in flow cytometry immunophenotyping, where it enables precise identification and characterization of progenitor cell populations within complex and heterogeneous samples.

CD34 antibody, also referred to as hematopoietic progenitor marker antibody or flow cytometry lineage marker antibody, plays a central role in defining early differentiation states in multiparameter FACS analysis. In flow cytometry, CD34 expression distinguishes undifferentiated progenitor cells from mature hematopoietic populations, allowing researchers to map lineage progression and quantify shifts in progenitor compartments under different biological or experimental conditions. The clear separation of CD34-positive populations supports accurate gating and quantitative analysis across diverse sample types including bone marrow aspirates and peripheral blood mononuclear cells.

This CD34 Antibody for FACS is uniquely suited for immunophenotyping applications, where it functions as a foundational marker within complex antibody panels. CD34 is commonly used in combination with markers such as CD38, CD45, CD90, CD117, and CD133 to define discrete progenitor subsets and hierarchical differentiation pathways. These multiparameter panels enable high-resolution analysis of hematopoietic systems and support detailed characterization of immune development, progenitor expansion, and lineage commitment.

Clone CDLA34-2R is a recombinant rabbit monoclonal antibody that delivers strong and consistent surface staining in flow cytometry, enabling reliable discrimination of CD34-positive populations. Its signal intensity and low non-specific binding support clean population separation and facilitate integration into high-dimensional panels without compromising detection of co-expressed markers. This makes it particularly effective in studies requiring precise quantification of progenitor cell subsets.

Flow cytometry immunophenotyping using CD34 is widely applied in studies of bone marrow biology, immune reconstitution, and disease-associated alterations in progenitor populations. Changes in CD34-positive cell frequency, phenotype, or marker co-expression patterns provide insight into hematologic conditions and treatment responses. The ability to track these changes across experimental conditions makes CD34 an essential component of longitudinal and comparative immunophenotyping strategies.

In addition to hematopoietic systems, CD34 is also used to identify endothelial progenitor cells and vascular-associated populations in flow cytometry, expanding its relevance to angiogenesis and regenerative biology research. These applications further highlight the versatility of CD34 as a marker in multiparameter analysis.

Overall, CD34 Antibody for FACS enables high-resolution immunophenotyping of progenitor cell populations, supporting precise gating, multiparameter panel integration, and detailed analysis of hematopoietic and vascular cell systems.

This antibody is part of our CD34 antibody collection, supporting research into stem cell biology, endothelial markers, and tumor angiogenesis.

Application Notes

Optimal dilution of the CD34 Antibody for FACS / Flow Cytometry Immunophenotyping Antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full-length human protein was used as the immunogen for the recombinant CD34 antibody.

Storage

Store the recombinant CD34 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD34 immunophenotyping antibody, CD34 flow cytometry marker antibody, hematopoietic progenitor marker antibody, CD34 multiparameter FACS antibody, CD34 lineage analysis antibody

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